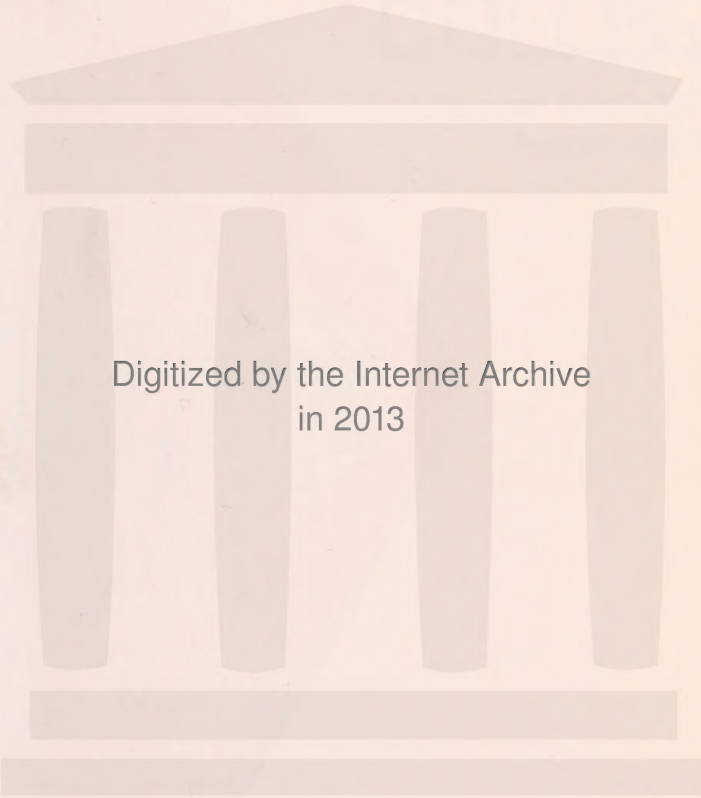




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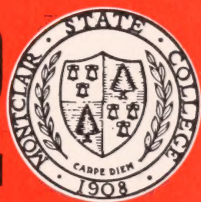
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# MONTCLAIR STATE COLLEGE

Upper Montclair  
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1970-72



*Graduate Programs*

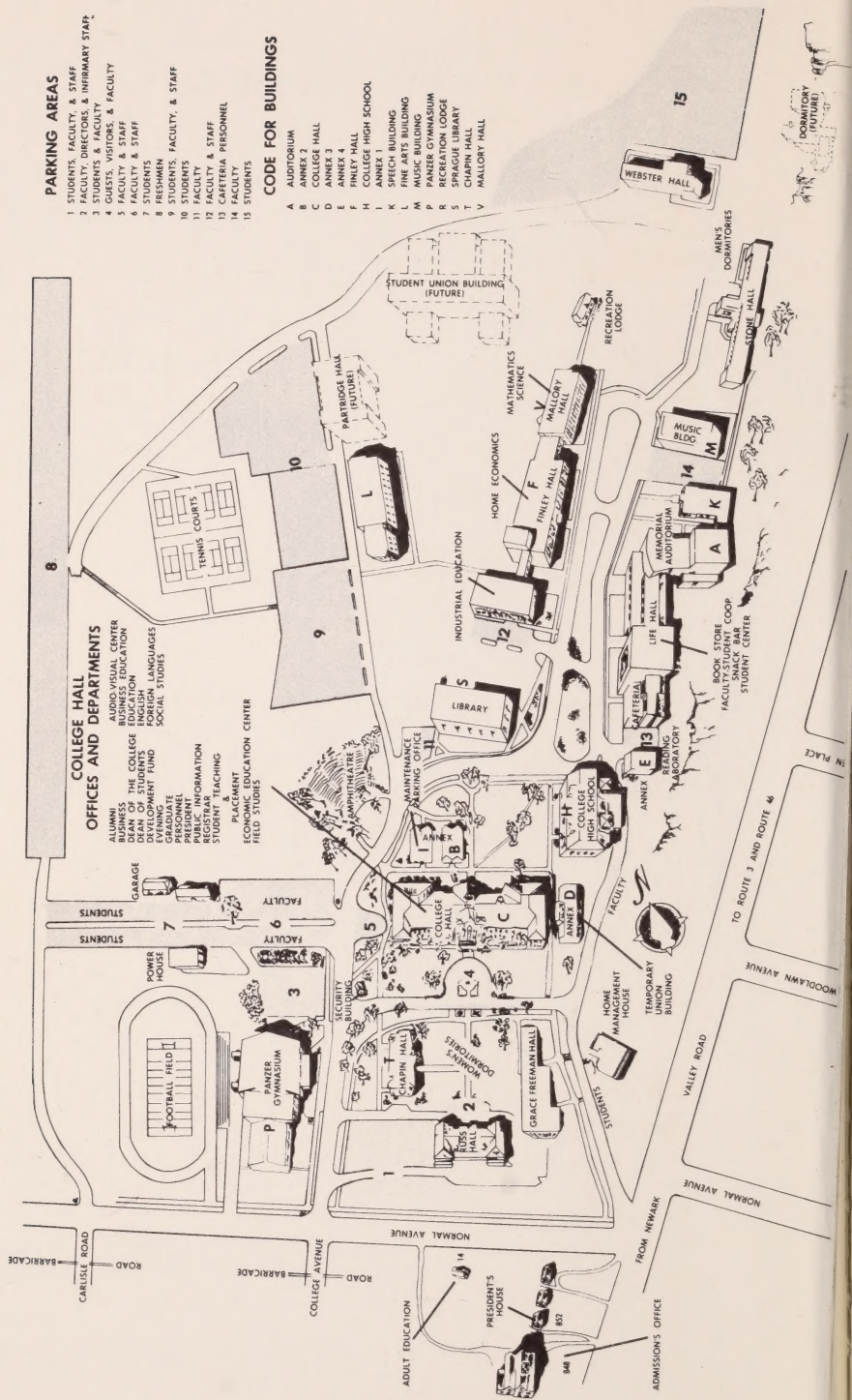
BULLETIN OF INFORMATION

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- 6 FACULTY & STAFF
- 7 STUDENTS
- 8 FRESHMEN
- 9 STUDENTS, FACULTY, & STAFF
- 10 STUDENTS
- 11 FACULTY
- 12 FACULTY & STAFF
- 13 FACULTY, PERSONNEL
- 14 FACULTY
- 15 STUDENTS

# **CODE FOR BUILDINGS**

- A AUDITORIUM
- B ANNEX 2
- C COLLEGE HALL
- D ANNEX 3
- E ANNEX 1
- F FINLEY HALL
- G COLLEGE HIGH SCHOOL
- H ANNEX 1
- I ANNEX 1
- J SPEECH BUILDING
- K FINE ARTS BUILDING
- L MUSIC BUILDING
- M PANZER GYMNASIUM
- N RECREATION LODGE
- O SPRAGUE LIBRARY
- P CHAPIN HALL
- Q MALLORY HALL





*Bulletin of*  
**MONTCLAIR  
STATE COLLEGE**

GRADUATE  
PROGRAMS

Bulletin of Information

**1970-72**

**MONTCLAIR STATE COLLEGE**  
UPPER MONTCLAIR, N. J. 1970

VOLUME 63

NUMBER 2

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## INTRODUCTION

For over sixty years, Montclair State College has endeavored to be loyal to the basic needs of higher education: recruiting a scholarly, dedicated faculty; selecting earnest students of high academic standing; devising and operating as full and thorough a curriculum as possible; providing extra-curricular experiences to extend and enrich the cultural horizon of the college community; keeping alert for opportunities to make the educational process increasingly effective; emphasizing the importance of the individual in an expanding society.

Although Montclair was originally an institution devoted to teacher preparation, the school's objectives have always been more than professional. One faculty member of long standing adds: "Montclair believes that the goal of the educational process is the freeing of people from myopic thinking and action to see what vision, activated by the arts and sciences, can accomplish." Montclair has, therefore, been guided by the philosophy that the questing mind, creative thinking, and dedicated discipline best characterize the educational process.\*

The philosophy underlying the College's existence, from first to last, has been large enough to include both the student preparing for a particular profession and the student preparing for the myriad tasks in a world of limitless frontiers.

Montclair State College has evolved a new structure which incorporates the School of Applied Arts and Sciences; School of Fine and Performing Arts; School of Humanities; School of Mathematics and Sciences; School of Social and Behavioral Sciences; and the School of Education. As the Schools take on a new definitive form, the graduate programs described in this informational bulletin will be related to, and developed under, the auspices which the various Schools afford.

The mission of Montclair State College is the highest quality of teaching and learning in the principal disciplines constituting what man knows explicitly; propounding new questions and advancing knowledge in these disciplines through the highest possible levels of research and artistic expression; synthesizing and analyzing knowledge as it is

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\*Cf. "Ten Years of Progress," President's Report (1951-61), Montclair State College (1961).



created in education, industry, government, voluntary group and individual performance; serving the public interest by deliberate expression of alternative perspectives on broad social issues and by the development of alternative policy proposals for the resolution of these social issues; helping resolve the high level informational, advisory, and knowledge application requirements of modern society in all the basic social institutions; providing for the optimum development of individual non-cognitive and affective capabilities; and assisting the student to comprehend and to develop a philosophy about all his roles in society — intellectual, aesthetic, economic, moral, social-recreational, physical, and civic.

The instructional program in the arts, sciences, and professions will be both on the undergraduate and graduate levels. The full-time faculty will be responsible for both levels. The disciplines are organized into schools, but students will have free choice to pursue fields of interest in any school as part of their education and faculty may be assigned to more than one school. The instructional program will be coordinated by the Vice President for Instruction through a council composed of the Deans, faculty, and students of the several schools.

The unique aspects of Montclair State College are expressed in its recent formation into six schools, each organized upon disciplines forming a coherent frame of reference. The arrangement of disciplines into schools permits a specific organization for each discipline-grouping that is rationally suited to the differences among disciplines, provides focused leadership upon the problems of those disciplines, and arranges students into interest groups that permit the individual to be met in affective as well as intellectual terms. Each of the schools is charged with ordering its affairs to serve the College missions in the terms most applicable to the disciplines involved. At the same time, the several schools will develop a unique balance among the College missions: the School of Applied Arts and Sciences will be particularly concerned with the knowledge applications mission while the School of Social and Behavioral Sciences will more likely emphasize the advancement of knowledge mission. However,



this will be a matter of emphasis, not an exclusion of functions from any school.

## ACCREDITATION

Montclair State College is fully accredited by the Middle States Association of Colleges and Secondary Schools, and is also fully accredited by the National Council for Accreditation of Teacher Education with the Master's Degree as the highest degree approved.

### Master's Degree Specialization Areas

Administration and Supervision; Business Education; Distributive Education; English; Fine Arts; Foreign Languages (French and Spanish); Health Education; Home Economics; Industrial Arts; Mathematics Education; Pure and Applied Mathematics; Music; Outdoor Education and Conservation Education; Physical Education; Psychology; Reading; Science (Biology, Chemistry; Earth Science; Physics); Social Science (Concentration in one of the following areas: American History; European History; Anthropology; Economics; Geography; Political Science; Sociology; Non-Western Culture); Speech Arts; Speech Therapy; Student Personnel Services (includes School Social Work); Teaching.

## ADMISSION AND MATRICULATION FOR THE MASTER'S DEGREE

1. The applicant for admission to any of the Master's degree programs should be a graduate of an accredited college or university and must present evidence of his qualifications for advanced study as shown by a high scholastic record.
2. It is in the student's own interest that he determine his eligibility for matriculation before initiating a program of graduate study. However, his formal matriculation may be deferred for good reason until not more than eight semester hours of graduate credit have been earned.
3. Prior to admission and matriculation, each student indicates the Master's degree area in which he will com-

plete such courses as are prescribed. Upon his formal acceptance, an official work program is made out in conference with a departmental advisor appointed for this purpose.

4. To be eligible for admission and matriculation, the applicant secures from The Graduate Office an application form which must be completed and returned to that office together with a) a personal statement of his objectives as required on the application form; b) a check or money order for the required application fee; and c) a photo copy of his teaching certificate where applicable.
5. The applicant will have his college send official transcripts of all college credits (if the applicant is not a graduate of Montclair) to the Graduate Office.
6. The applicant must have official scores earned on the Aptitude Test of the Graduate Record Examination sent to the Graduate Office.
7. The completed application, fee, statement of objectives, official transcripts, and official scores earned on The Graduate Record Examination should be on file in the Graduate Office before:

July 15th . . . . . for Fall Admission

November 15th . . for Spring Admission

April 15th . . . . for Summer Admission

(applications received after a filing deadline will be processed in accordance with the next filing date.)

8. A review of the student's undergraduate record and other qualifications will be made in the Graduate Office. The applicant will then be notified as to what action has been taken on his application.
9. The applicant who meets admission requirements will next confer with the graduate advisor in the program in which he expects to do his work. When he is eligible for matriculation, the advisor will develop a formal program of courses with him.
10. The applicant will receive from the Graduate Office official communication within a month after the interview as to his status. Under no circumstances shall a

student be considered matriculated in a degree program until he receives from The Graduate Office an official matriculation letter signed by the Assistant Director, Evening Division/Graduate.

### *Restrictions for Graduate Program Credit*

- a. No credit is granted toward the Master's degree for certain specifically designated basic courses on the 400 level which are required for initial certification.
- b. No credit is granted toward the Master's degree for *courses taken more than ten years prior to the date of matriculation.*
- c. No more than eight semester-hours of graduate credit taken at Montclair prior to matriculation, or more than six semester hours of graduate credit offered by Montclair in extension (off-campus courses), may be credited toward the Master's degree.
- d. No graduate credit is granted retroactively for work taken in excess of undergraduate degree requirements.
- e. No graduate credit is allowed for concurrent registration (enrollment) in other colleges without the approval of the Director of Graduate Programs.
- f. No graduate credit is granted for courses in which a student has been an auditor.
- g. Since some course numbers and/or titles have been changed, responsibility for avoiding duplication is placed upon the student. No course once taken for credit may receive credit a second time under another number and/or title.

### *Number of Semester Hours: Minimum*

A minimum of thirty-two semester hours of graduate credit is required in all departments. Additional hours may be added to compensate for any deficiencies found in the applicant's undergraduate record. A minimum of forty semester hours is required in the program with a major in teaching. A minimum of sixty semester hours is required for certification in the School Psychology Program.



### *Grades to be maintained*

An average grade of "B" or better is required for the obtaining of the Master's degree. No graduate credit is given for work below "C."

### *Student Load*

Graduate work should involve careful and intensive study with ample time to explore areas which may warrant study. Twelve to sixteen hours of work per semester is considered a full-time program for the graduate student in residence.

For teachers, or others employed full time, six hours of work in any one semester shall be the maximum load, with four semester hours recommended. In the regular six-week summer session, the maximum load shall be eight semester hours. The Graduate Council strongly recommends that the student consider six semester hours of work a full program.

### *Time Limit*

Work for the Master's degree must be completed within six years after the date of matriculation. If an extension of time is required, a request for such extension must be filed with the Director of Graduate Programs. The student's progress will then be reviewed and evaluated in accordance with the requirements for the degree as stated in the most recent Graduate Bulletin and with the established policy for this type of continuance. The policy statement may be obtained from the Graduate Office.

### *Transfer Credit*

With the approval of the student's program advisor and the Director of Graduate Programs, a graduate of an accredited college or university may transfer graduate credits. The maximum amount of credit which may be accepted is eight semester hours. The procedure is to arrange in advance for this privilege, and to make application for transfer of credit on a form available in the Graduate Office. Credit for courses taken prior to 1959 may not be transferred.



### *Course Numbering System*

Courses in the 500 and 600 series are open only to graduate students. Those in the 400-499 series and listed in this bulletin may be selected by graduate students for graduate credit. Students must have completed the prerequisites indicated in the course descriptions.

### *Course Offerings and Schedules*

Regular bulletins are published by the Evening Division for the information of those who wish to attend part-time, extension, or summer session courses. These contain a list of course-offerings, time of class meetings, room assignments, and instructors for the scheduled classes. Other information may be obtained from the Director of Graduate Programs, Montclair State College, Upper Montclair, New Jersey.

### *Comprehensive Examination*

A comprehensive departmental examination or its equivalent is required in all departments. This examination may be written and/or oral. The oral phase of the examination will be on an individual basis. The examination is given during the semester, prior to graduation, by the department in which the student does his major work. Students who fail the departmental comprehensive examination are permitted to retake this examination. Students may be required to register for additional work in preparation for the re-examination. Students may not take the examination more than three times. (Consult the Evening Division Announcements for dates on calendar page.) *It is the student's responsibility* to notify his advisor that he intends to take the examination. This procedure should be completed at least 6 weeks prior to the examination date in order to allow ample time for the department to communicate with each candidate concerning any pre-examination procedures.

## REGISTRATION

### BY MAIL

All students (except Montclair State (day) and other college undergraduates) who have registered at Montclair State College during any of the last two semesters, will receive registration materials. Other students previously registered at Montclair State College, since the summer of 1966, may receive materials for mail registration by writing or calling the Evening Division Office. Students who have never registered or who have not registered since the summer of 1966 in the Evening Division or Summer Session at Montclair State College *must register in person.*

### IN PERSON REGISTRATION

Those students who cannot take advantage of mail registration must register in person, according to the priority below. *Students who have received registration materials in the mail should bring them when registering in person.* Details for registration will be posted in College Hall. Students must bring records of previous college work in order to establish priority for registration. In addition, matriculated students must present their Work Program to advisors. Students registering as first time certification or special students must present a transcript of their undergraduate or graduate studies. Previously registered certification students must have their Work Program or a letter from Trenton.

*A student has completed his registration when:*

1. His registration forms have been properly and completely filled out.
2. His program has been approved by his Departmental advisor and by advisors in other departments in which he selects courses.
3. His fees have been paid.
4. He receives his class admission cards, Library-Indentification label and parking decal.

## TUITION FEES AND EXPENSES\*

All checks should be made out to: *Montclair State College*

### TUITION

*New Jersey Residents and Teachers, and Non-residents*  
*Undergraduate* (those students who do not hold  
 a bachelor's degree) Per semester hour of credit \$20.00  
*Graduate* (those students who hold at least a  
 bachelor's degree) Per semester hour of credit . . 25.00  
 Full Time Graduate Students (12 s.h. or more) 220.00  
 (includes registration fee)

### REGISTRATION FEE

To be paid each time a student registers—  
 non-refundable . . . . . 2.00

### STUDENT UNION BUILDING FEE

To be paid each time a student registers—  
 non-refundable . . . . .  
 \$1.00 per s.h. to a maximum of . . . . . 10.00

### LATE REGISTRATION

An additional fee charged to all students who  
 fail to register during the regular registration period . . 5.00

### APPLICATION FOR ADMISSION FEE

\$10.00 to be paid when student files an application for  
 admission to a program. This fee must accompany the appli-  
 cation form and is not refundable.

### CHANGE OF CLASS SCHEDULE FEE

A \$5.00 fee charged to students who, after their *initial*  
 registration each semester, desire to make any changes in  
 their original class schedule other than a withdrawal from a  
 class.

### TRANSCRIPT FEE

\$1.00 for single copy. Inquire in the Evening Division  
 Office.

### REFUNDING OF FEES

In accordance with a decision of the State Board of  
 Education on May 3, 1962, the following uniform schedule

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\*Subject to change at any time by action of the State of New Jersey  
 Department of Higher Education.

## 18/TUITION FEES AND EXPENSES

of refunds was effective in all New Jersey State Colleges on September 1, 1962:

<i>Periods of Withdrawal</i>	<i>PerCent Refunded</i>
Withdrawal before course begins . . . . .	100%
Withdrawal during first third of course . . . . .	60%
Withdrawal between first third and first half of course . .	30%
Withdrawal during last half of course . . . . .	None

The percentage of refund is based upon the total obligation.

A reduction in a student's program is equivalent to a withdrawal. This policy applies to such reductions. Tuition and service charges are refunded in full if classes are discontinued by the authorities at the college.

**IN COMPUTING REFUNDS, THE DATE OF WITHDRAWAL IS THE DATE ON WHICH THE EVENING DIVISION OFFICE RECEIVES A WRITTEN NOTICE FROM THE STUDENT.**



## DEPARTMENT OF BUSINESS STUDIES

### *Graduate Advisors:*

Business Studies — Dr. Louis C. Nanassy  
Distributive Education — Dr. Joseph C. Hecht

The graduate work in the Department of Business Studies is designed to prepare teachers of business education for administrative, supervisory, specialized work, or master teaching in the field of business education and distributive education. In order to attain these objectives the candidate has an opportunity to supplement his undergraduate program and to explore advanced areas of work in accordance with his individual background, experience, achievement, and professional needs.

### Admission Requirements

Graduate work toward the Master of Arts degree in Business Studies presupposes the completion of an undergraduate major in business or distributive education, or its equivalent.

### Requirements for the M.A. Degree in Business Education

#### I. *Specialization* ..... 11-20 s.h.

##### A. Required Courses

10:501	Principles and Problems of Business Education .....	2 s.h.
10:502	Evaluation of Current Literature in Business Education .....	2 s.h.
10:603	Research Seminar in Business Education .....	2 s.h.

Required, at least two of the following courses:

10:511	Improvement of Instruction in Bookkeeping, Accounting and Business Arithmetic .....	2 s.h.
10:512	Improvement of Instruction in General Bookkeeping Subjects ..	2 s.h.
10:513	Improvement of Instruction in Stenography and Secretarial Practice	s.h.
10:514	Improvement of Instruction in Typewriting and Clerical Practice	2 s.h.
11:551	Improvement of Instruction in Distributive Education .....	2 s.h.

- B. Elective in Business Education and/or  
Distributive Education ..... 10 s.h.
- II. *Basic Professional Education* ..... 6-9 s.h.
- III. *Free Electives* ..... 6-8 s.h.  
Minimum 32 s.h.
- IV. *Comprehensive Examination*

### REQUIREMENTS FOR THE M.A. DEGREE IN DISTRIBUTIVE EDUCATION INCLUDING CERTIFICATION

- I. *Specialization* ..... 11-20 s.h.
- A. Required Courses
- Holders of a New Jersey teacher's certificate in the field of business education who complete the required specialization courses in the certification program will be eligible for certification in Distributive Occupation. Courses (or their equivalents) will be waived that have been completed at either the graduate or undergraduate level, prior to admission to the program.
- D.E. 414 Merchandising (Marketing &  
Distribution ..... 2 s.h.
- D.E. 452. Principles of Vocational Education 2 s.h.
- D.E. 453. Curriculum Development in  
Distributive Education ..... 2 s.h.
- D.E. 454. Principles & Methods in  
Distributive Education ..... 2 s.h.
- D.E. 455. Coordination of Distributive  
Education ..... 2 s.h.
- D.E. 456. Organization and Administration  
of Distributive Education ..... 2 s.h.
- D.E. 551 Improvement of Instruction in  
Distributive Education ..... 2 s.h.
- D.E. 552. Advanced Salesmanship ..... 2 s.h.
- D.E. 553. Trends in Retail Distribution ... 2 s.h.
- B.E. 603. Research Seminar in  
Business Education ..... 2 s.h.
- 20 s.h.

When courses are waived, students seeking a master's degree can fulfill the specialization requirement by substituting courses from list "B. Electives in Distributive Education."

B. Electives in Distributive Education

11:406	Advertising .....	2 s.h.
11:417	Marketing .....	2 s.h.
11:418	Retail Store Management .....	2 s.h.
11:419	Merchandise Information .....	2 s.h.
11:422	Visual Merchandising .....	2 s.h.
11:423	Buying for Distribution .....	2 s.h.
11:522	Advertising Media .....	2 s.h.
11:552	Advanced Salesmanship .....	2 s.h.
11:554	Workshop in Problems of Distributive Education .....	2 s.h.
11:555	Credits and Collections .....	2 s.h.
11:556	Retail Personnel Administration .	2 s.h.
11:557	Sales Management .....	2 s.h.
11:558	Executive Leadership in Retailing	2 s.h.
11:559	Development of Retail Training Programs .....	2 s.h.

- C. Work Experience—Certification for Distributive Occupations requires two years of approved work experience in distributive occupations. This requirement may also be fulfilled by successful completion of the following:

Full-time coordinated and supervised work experience in an approved work station for the months of July and August (minimum of 8 weeks is required for 11:450 and also for 11:451). One evening class session a week is scheduled with the work program to discuss the progress and program.

II. *Basic Professional Education* ..... 6-9 s.h.

III. *Free Electives* ..... 6-8 s.h.

Minimum 32 s.h.

IV. *Comprehensive Examination*

## SCHOOL OF EDUCATION

### *Graduate Advisors*

Administration and Supervision — Dr. Earl Peckham

Student Personnel Services,

including School Social Work — Dr. Earl C. Davis

Major in Teaching — Miss Simone Picard

Reading — Miss Maria Schantz

Outdoor Education and Conservation — Dr. Harry H. Hoitsma

Graduate courses in this department are designed to meet one or more of six needs: (1) instruction in the Administration and Supervision major leading to the M.A. degree and New Jersey certification for one or more of the positions of Supervisor, School Principal, and School Administrator; (2) instruction in the Student Personnel Services, including School Social Work (Visiting Teacher) leading to the M.A. degree and New Jersey certification in guidance and school social work; (3) advanced professional instruction for administrators, supervisors, counselors, and classroom teachers; and (4) Master of Arts with a major in Teaching, designed to prepare liberal arts college graduates for teacher certification by combining certification requirements with additional work at the graduate level; (5) M.A. in Reading; and (6) M.A. in Outdoor Education and Conservation.

The admission requirements and the requirements for the M.A. degree in each of the separate areas within the field of Education are given separately. Students who are not candidates for a degree may elect any courses except those for which they may not have the necessary prerequisites or which are restricted to candidates in the field of specialization.

### ADMISSION TO AND REQUIREMENTS FOR THE M.A. DEGREE IN ADMINISTRATION AND SUPERVISION

#### **Admission Requirements**

In addition to the general College admission requirements, a student must hold a New Jersey teacher's certificate and have at least two years of certified teaching experience



completed prior to matriculation. Those whose undergraduate work and experience were obtained outside of New Jersey must meet New Jersey certification and experience standards. The degree will not be conferred until the candidate has had three successful years of teaching experience.

### Degree Requirements:

Satisfactory completion of not fewer than thirty-two semester hours of work as follows: (In exceptional cases appropriate substitutions or changes may be made in these requirements upon approval of the Program Advisor.)

#### I. *Foundation for Educational Leadership*

(6 to 8 s.h. subject to approval by Graduate Advisor)

15:503	Methods and Instruments of Research . . . . .	2 s.h.
15:406	Educational Sociology . . . . .	3 s.h.
15:431	Individual and Group Dynamics .	3 s.h.
15:492	Comparative Education . . . . .	3 s.h.
65:453	Social Psychology . . . . .	3 s.h.
65:578	Psychological Tests and Measurements . . . . .	3 s.h.
96:565	Community Resources and Youth	3 s.h.
15:533	Philosophy of Education . . . . .	2 s.h.
15:534	Economic and Political Determinants in New Jersey . . . .	2 s.h.

#### II. *Specialization*

A.	For those specializing in Administration of Secondary Schools . . . . .	required 14 s.h.
15:461	The Junior High School Curriculum . . . . .	3 s.h.
*15:510	Introduction to Educational Administration . . . . .	2 s.h.
15:511	School Business Administration .	2 s.h.
15:514	School Law . . . . .	2 s.h.
*15:520	Administration of the Modern Secondary Schools . . . . .	2 s.h.
*15:530	Curriculum Construction in the Secondary School . . . . .	2 s.h.
*15:532	Principles of Curriculum Development . . . . .	2 s.h.

- \*15:540 Supervision of Instruction . . . . . 2 s.h.
- \*15:619 Research Seminar in  
Administration and Curriculum . 2 s.h.

B. For those specializing in Supervision  
and Curriculum Development . . . . required 12 s.h.

- 15:461 The Junior High School  
Curriculum . . . . . 3 s.h.
- \*15:510 Introduction to Educational  
Administration . . . . . 2 s.h.
- 15:408 Selection and Utilization  
of Audio-Visual Materials . . . . . 3 s.h.
- \*15:532 Principles of Curriculum  
Development . . . . . 2 s.h.
- \*15:619 Research Seminar in  
Administration and Curriculum . 2 s.h.
- \*15:540 Supervision of Instruction . . . . . 2 s.h.
- 15:541 Supervision in Special Fields . . . 2 s.h.
- 15:538 Curriculum Construction in the  
Elementary School or 15:472  
Elementary School Curriculum . . 2-3 s.h.
- 15:410 Teaching Materials Workshop . . . 2 s.h.
- 15:530 Curriculum Construction  
in the Secondary School . . . . . 2 s.h.

\*Required Courses

III. *Free Electives* . . . . . 6 s.h.

IV. *Educational Electives* . . . . . 2-4 s.h.

One or two 2 s.h. graduate courses elected from  
the Education Department graduate offerings with the  
approval of the Graduate Advisor.

V. *Field Experience in Administration  
and Supervision* . . . . . 2 s.h.  
(15:628)

These credits are to be earned through an admini-  
strative or supervision assignment in a public junior or  
senior high school in cooperation with the principal of  
the school, and supervised by a college staff member.  
Where such assignments are not possible and appropriate  
substitute experience will be planned with the student's

advisor. Those specializing in supervision and curriculum development will be assigned to their chosen area or level of education.

## VI. *Comprehensive Examination*

In addition to successful completion of the thirty-two semester hours of graduate work study, each candidate must pass a written comprehensive examination testing the professional insight, judgment, and broad acquaintance needed for the leadership role in education.

## Requirements for Supervisor's Certification

### *Admission*

This program is open to students who possess a New Jersey teaching certificate and desire advanced certification without obtaining the Master's degree and to students who are working toward a Master's degree in the subject matter fields. With careful planning of Basic Professional Education courses and Free Electives a student may fulfill most of the supervisor's certification requirements while pursuing an M.A. in fields other than Administration and Supervision.

### *Requirements*

The Certification requirements are twelve semester hour credits in the area of Supervision and Curriculum. The two required courses fulfill the background courses necessary for the certificate. The electives allow the student to specialize in a particular area.

### **Required** 4 s.h.

15:532 Principles of Curriculum Development . . . 2 s.h.

15:540 Supervision of Instruction . . . . . 2 s.h.

Electives: A minimum of eight (8) semester hour credits to be selected from courses listed below:

10:505 Administration and Supervision  
of Business Education . . . . . 2 s.h.

15:461 The Junior High School Curriculum . . . . . 3 s.h.



15:530 Curriculum Construction in the Secondary School . . . . .	2 s.h.
15:538 Curriculum Construction in the Elementary School or . . . . .	2 s.h.
15:472 Elementary School Curriculum . . .	3 s.h.
15:541 Supervision in Special Fields . . . . .	2 s.h.
15:619 Research Seminar in Administration and Curriculum . . . . .	2 s.h.
15:587 Administration and Supervision of Guidance Programs . . . . .	2 s.h.
24:502 Curriculum Construction in Art Education	2 s.h.
26:423 Seminar in the Supervision of Home Economics. . . . .	2 s.h.
26:425 Home Economics in the Middle School Program . . . . .	2 s.h.
28:501 Curriculum Content and Course Organization	3 s.h.
28:504 Supervision of Industrial Arts . . . . .	3 s.h.
28:509 Curriculum Construction in Vocational—Technical Education . . . . .	2 s.h.
50:570 Administration and Supervision of Mathematics . . . . .	2 s.h.
50:571 Curriculum Construction in Mathematics . .	2 s.h.
73:526 Curriculum Development in Health Education . . . . .	2 s.h.
76:576 Curriculum Development in Physical Education . . . . .	2 s.h.
76:577 Administration and Supervision in Physical Education . . . . .	2 s.h.
90:501 Modern Social Studies Instruction and Supervision . . . . .	2 s.h.
21:533 Supervision of Speech and Hearing Programs	2 s.h.
Total Requires 12-13 s.h.	

## STUDENT PERSONNEL SERVICES, INCLUDING SCHOOL SOCIAL WORK (Visiting Teacher)

In addition to general College Admissions Requirements, a student must hold a New Jersey teacher's certificate and have completed at least one year of teaching prior to matriculation. (Not more than eight semester hours of credit will be counted toward this degree prior to the obtaining of the certificate and the beginning experience.)

For candidates for the school social work certificate and/or degree no teacher's certificate is required and one year of school social work experience may be substituted for the teaching experience.

- |   |               |
|---|---------------|
| I. <i>Guidance and Counseling</i> .....   | 6 s.h.        |
| 15:580 Principles of Guidance .....   | 2 s.h.        |
| 15:588 Techniques of Interviewing and<br>Counseling .....                                     | 2 s.h.        |
| 15:582 Vocational Guidance .....  | 2 s.h.        |
| II. <i>Testing and Evaluation</i> .....   | 3 s.h.        |
| 15:578 Testing and Evaluation in<br>Student Personnel Services .....                          | 3 s.h.        |
| III. <i>Psychology</i> .....  | Select 6 s.h. |
| 65:560 Advanced Educational Psychology .....  | 3 s.h.        |
| 65:561 Developmental Psychology .....   | 3 s.h.        |
| 65:562 Dynamics of Human Behavior .....   | 2 s.h.        |
| 65:563 Theories of Learning .....   | 3 s.h.        |
| 65:564 Psychology and Education of the Physically<br>and Mentally Handicapped Children .....  | 3 s.h.        |
| 65:565 Psychology and Education of the Socially<br>and Emotionally Handicapped Children ..... | 3 s.h.        |
| 65:573 Physiological Psychology .....   | 3 s.h.        |
| IV. <i>Sociological Foundations</i> .....   | 6 s.h.        |
| Required:   |               |
| 96:565 Sociology of Youth .....   | 3 s.h.        |
| 96:566 The Metropolitan Community .....   | 3 s.h.        |
| 96:572 Selected Problems in Sociology .....   | 3 s.h.        |

96:573 Sociology of the City Sub-Areas . . . . .	3 s.h.
96:574 Sociology of Cultural and Ethnic Groups. . . . .	3 s.h.
15:406 Educational Sociology . . . . .	3 s.h.

V. <i>Research</i> . . . . .	6 s.h.
15:503 Methods and Instruments of Research (required) . . . . .	2 s.h.
A. For emphasis in Guidance:	
15:602 Research Seminar in Guidance . . . . .	2 s.h.
15:604 Field Work in Guidance . . . . .	2 s.h.
B. For emphasis in School Social Work (Visiting Teacher)	
15:605 Research Seminar in School Social Work . . . . .	2 s.h.
15:607 Field Work in School Social Work (Visiting Teacher) . . . . .	2 s.h.

VI. <i>Electives</i> . . . . .	5 s.h. minimum
15:509 Medical Problems in Education . . . . .	2 s.h.
26:427 The Disadvantaged Family . . . . .	2 s.h.
15:577 Social Case Work . . . . .	2 s.h.
15:583 Educational Guidance . . . . .	3 s.h.
15:585 Group Guidance and Counseling . . . . .	3 s.h.
15:586 Elementary School Guidance and Counseling . . . . .	3 s.h.
15:587 Administration and Supervision of Guidance Programs . . . . .	3 s.h.
15:589 Student Personnel Services in Higher Education . . . . .	3 s.h.
15:579 Use of Tests in Counseling . . . . .	3 s.h.

Minimum 32 s.h.

### Certification Requirements for School Social Worker (Visiting Teacher)

Students who desire to earn the School Social Worker  
(Visiting Teacher) certificate and who do not plan to ma-

triculate for the Master of Arts degree must complete the following courses or their equivalents:

65:561 Developmental Psychology . . . . .	3 s.h.
96:401 Modern Sociology . . . . .	3 s.h.
96:404 The Family as an Institution or 26:429 Family Sociology or	
96:405 Urban Sociology . . . . .	3 s.h. each
15:577 Social Case Work . . . . .	2 s.h.
65:562 Dynamics of Human Behavior . . . . .	2 s.h.
15:509 Medical Problems of Education . . . . .	2 s.h.
96:565 Community Resources and Youth . . . . .	3 s.h.
26:427 The Disadvantaged Family . . . . .	3 s.h.
15:605 Research Seminar in School Social Work (Visiting Teacher) or	
15:607 Field Work in Social Work (Visiting Teacher) . . . . .	2 s.h. each
Total 25 s.h.	

An evaluation of a student's previous work will be made. If the student has completed equivalent courses at the undergraduate level or in post-graduate work, these will be accepted for certification and the balance of graduate work will be outlined on a work program (program of studies) which will be issued to the student.

## ADMISSION TO AND REQUIREMENTS FOR THE M.A. DEGREE (Major in Teaching) SECONDARY (7-12) AND SPECIAL FIELDS (K-12)

These Certificate and Master's Degree programs are designed especially for college students who wish to prepare to become secondary school teachers or teachers of special subjects such as art and music in the elementary and secondary grades. The content, organization, materials, and methods of these courses are designed with consideration of the student's maturity, academic background, and experience. This M.A. program is open to students with undergraduate background equivalent to a teaching field in one



of the following areas: Art, Business Education (e.g. Book-keeping and Accounting, General Business Education, Secretarial Studies), English, Foreign Languages (e.g. French, Spanish), Home Economics, Industrial Arts, Mathematics, Music, Physical Education, Science, Social Sciences, Speech and Dramatic Arts.

### **Admission Requirements: (Certificate or Degree Programs)**

Admission is restricted to those selected graduates of accredited colleges who indicate high potential for teaching, and to in-service teachers with emergency or provisional certificates.

College graduates not employed as teachers will be screened for admission with due consideration to:

- a. Suitability of character and personality for teaching
- b. Health examination
- c. Speech and writing competence
- d. Competence in teaching field, based upon admissions criteria outlined elsewhere in this Bulletin.

In-Service teachers holding emergency or provisional certificates, employed by local school districts, will be admitted to the program to the extent to which the College staff can provide adequate supervisory services upon application, and agreement of the employing superintendent of schools to enter into a cooperative program of supervision of the student in connection with course 15:404 & 15:405, In-service Supervised Teaching Seminar. During the first semester these students will complete the application procedure regarding character, health, speech, and writing, and preparation in subject-matter field. When the student completes six to ten semester hours at Montclair, a decision will be made regarding matriculation for the M.A. degree. If, as a result of failure to satisfy the screening criteria or unsatisfactory performances in the program, it is considered necessary to withdraw a student, conferences will be arranged with the student and the employing superintendent as early as possible.

## Certification and Degree Requirements

### I. *Basic Background Requirements*

A student must have a minimum of thirty graduate or undergraduate semester-hour credits in general background courses distributed in at least three of the following fields: English, social studies, science, fine arts, mathematics, and foreign languages. Six semester-hour credits in English and six semester-hour credits in social studies will be required.

### II. *Subject-Matter Specialization*

A student must have a subject-matter background suitable in extent and coverage to constitute a major in at least one field. Evaluation should be done through the certification and departmental advisor.

### III. *Professional Requirements*

Prior to completion of the Certificate and/or Master's degree programs, the student must have completed the following professional curriculum. Courses may be waived that have been completed at either the graduate or undergraduate level, prior to enrollment in the program. However, students must complete Student Teaching or the In-Service Supervised Teaching Seminar at the College.

15:422 Historical & Philosophical Foundations of Education . . . . .	3 s.h.
15:421 The School in American Society . . . . .	3 s.h.
65:560 (Advanced) Educational Psychology — Pre-requisite: . . . . .	3 s.h.
A course in General Psychology . . . . .	(3)s.h.
Departmental Methods . . . . .	3 s.h.
Education Elective . . . . .	3 s.h.
15:403 Student Teaching or 15:404 & 405 In-Service Supv'd Tchg. Seminar (4 s.h. ea.) . . . . .	8 s.h.

(1) Although part of the professional program may be waived on the basis of previous college work, students are admitted to 15:403, Student Teaching,

only after completing sufficient preparation at the college to enable the college to assess their potential as teachers and to recommend them to a school district as student teachers. (2) Teachers in service, on sub-standard certificates, will substitute 15:404 & 405, In-Service Supervised Teaching Seminar. These students will be admitted to the program only with the prior permission of the local superintendent of schools, and agreement with the local school system regarding a program of joint supervision with the college. Unlike Student Teaching, the In-Service Supervised Teaching Seminar may be the initial course in the student's program.

Total Professional Program for Certification . . . . . 23 s.h.

IV. *Additional Requirements for the M.A. degree* . 17 s.h.  
 15:504 Action Research for Teachers . . . . . 3 s.h.  
 15:535 The Teaching of Communication Skills . 3 s.h.  
 Electives . . . . . 11 s.h.

Electives may include a maximum of 3 s.h. graduate credits in Education; balance must be NON-EDUCATION electives (i.e. cultural and/or teaching area electives), selected jointly by the student and his advisor in consideration of the students' needs and interests.

Selected matriculated students may be invited to develop a Master's thesis or quality under the guidance of a thesis advisor for which four semester hours of elective credit will be allowed.

Total Master of Arts (Major in Teaching) Minimum 40 s.h.

If part of the professional requirements are waived on the basis of previous college work, students may take less than 40 s.h. of work at the College; however, to qualify for the Master of Arts degree, at least 32 semester hours of graduate work must be completed, under advisement, in the Montclair State College Program.



## ADMISSION TO AND REQUIREMENTS FOR THE M.A. DEGREE IN READING SPECIALIZATION (7-12)

### Admission Requirements

Requirements are those for all graduate students applying for matriculation into a Master's Program at Montclair State College.

Matriculation normally requires prior completion of the basic courses in reading education needed for New Jersey certification to teach reading.

Provision is made in this program to matriculate certified secondary and elementary school teachers who have demonstrated interest and ability suitable to reading education. These applicants shall furnish acceptable evidence of talent appropriate for competence in reading instruction. Evidence, for example, may be in the form of letters of recommendation from the school system superintendent or the school building principal.

### Degree Requirements

Satisfactory completion of not fewer than thirty-two semester-hours of work as follows: (In exceptional cases appropriate substitutions or changes may be made in these requirements upon approval by the Program Advisor).

#### I. *Basic Professional Education*

(see Master's Degree Program Pattern) . . . . . 6-9 s.h.

15:503 Methods and Instruments of Research

Required 2 s.h.

Elect courses from the following:

#### *Graduate Courses:*

15:514 School Law . . . . . 2 s.h.

15:550 Literature for

Adolescents . . . . . 2 s.h.

65:560 Advanced Educational Psychology . . . . 3 s.h.

65:561 Developmental Psychology . . . . . 3 s.h.

65:562 Dynamics of Human Behavior . . . . . 3 s.h.

65:566 Psychology and Education of the Gifted 3 s.h.



*Senior—Graduate Courses:*

15:406 Educational Sociology . . . . .	3 s.h.
15:408 Selected and Utilization of Audio-Visual Materials . . . . .	3 s.h.
65:453 Social Psychology . . . . .	3 s.h.
15:492 Comparative Education . . . . .	3 s.h.

*Graduate and Senior-Graduate Related Courses:*

A student may receive credit for one or the other courses selected from each pair but not both.

15:501 Tests and Measurements in Secondary Education or . . . . .	2 s.h.
65:578 Psychological Tests and Measurements .	3 s.h.
65:564 Psychology and Education of the Physically and Mentally Handicapped Children or .	3 s.h.
65:452 Psychology and Education of the Handicapped or . . . . .	3 s.h.
65:565 Psychology and Education of the Socially and Emotionally Handicapped Children .	3 s.h.
15:580 Principles and Techniques of Guidance or	2 s.h.
15:451 Guidance for the Classroom Teacher . . .	3 s.h.

## II. *Specialization in Reading* 11-20 s.h.

### A. Required courses for all candidates:

15:552 The Nature of Reading . . . . .	3 s.h.
15:554 Case Studies of Reading Difficulties: Part I Testing . . . . .	3 s.h.
15:556 Corrective and Remedial Reading: Part I Causation . . . . .	3 s.h.
15:659 Research Seminar in Reading . .	2 s.h.

### B. Elective Courses:

Selections among the following courses will be determined through advisement and will be based on needs and interests of each student. Reading Electives (Student must take at least one of these courses.)

15:551 Administration and Supervision of Reading Programs . . . . .	2 s.h.
15:553 Techniques of Reading Improve- ment in Secondary Schools . . . . .	2 s.h.
15:555 Case Studies of Reading Difficulties: Part II Treatment . . . . .	2 s.h.

- 15:557 Corrective and Remedial Reading:  
Part II Treatment . . . . . 3 s.h.  
15:558 Field Experiences in Reading .. 2 s.h.

*Courses Specifically Related to Reading:*

- 30:403 Reading Materials for Children  
and Youth . . . . . 4 s.h.  
40:412 General Linguistics . . . . . 2 s.h.  
40:425 Methods and Materials of TESL 3 s.h.  
15:561 Principles and Problems in  
Adult-Continuing Education  
Program Development . . . . . 3 s.h.  
20:512 Growth and Structure of the  
English Language . . . . . 3 s.h.  
20:516 Language Problems in the  
English Curriculum . . . . . 3 s.h.  
20:541 The New Grammar . . . . . 3 s.h.  
21:439A Phonetics . . . . . 2 s.h.  
21:439G Speech Correction . . . . . 2 s.h.  
21:464 Psychology of Oral  
Communication . . . . . 2 s.h.  
21:466 Speech Development:  
Improvement and Re-Education . 2 s.h.  
21:468 Measurement of Hearing . . . . . 3 s.h.  
15:408 Selection and Utilization of  
Audio-Visual Materials . . . . . 3 s.h.  
65:564 Psychology and Education of  
the Physically and Mentally  
Handicapped Children . . . . . 3 s.h.  
65:565 Psychology and Education of  
the Socially and Emotionally  
Handicapped Children . . . . . 3 s.h.

III. *Free Electives* 6-8 s.h.

IV. *Additional Departmental Requirements:*

- A. Supervised clinical experience within the frame-  
work of a required course and/or in addition to  
course work. Arrangements will be made to pro-  
vide this experience in the Montclair State Col-  
lege Campus Reading Center.
- B. A written comprehensive examination, supple-  
mented, if necessary, by an oral examination.

Minimum 32 s.h.

## ADMISSION TO AND REQUIREMENTS FOR THE M.A. DEGREE IN OUTDOOR EDUCATION AND CONSERVATION

### Admission Requirements:

Student must hold a Bachelor's degree from an accredited institution; hold a N.J. teaching certificate; have an interest in curriculum development; and have a background in elementary education or science, geology, camping, conservation, outdoor education, or related fields.

Most of the courses will be offered on campus at Montclair State College and will be supplemented by offerings at the New Jersey State School of Conservation, Glassboro State College, Trenton State College, and Rutgers College of Environmental Sciences.

A required practicum will be arranged by the program advisor.

### Program Outline

- I. *Outdoor Education and Conservation* . . . . . 12-18 s.h.
  - A. Purpose and Philosophy of Outdoor Education  
(one course required)  
15:440 Outdoor Education . . . . . 2 s.h.
  - B. Conservation Workshop (one course required)  
15:441 Conservation Education . . . . . 2 s.h.  
80:414 Conservation in Plants and  
Animals . . . . . 2 s.h.  
80:415 Conservation of Soil and Water . . . . . 2 s.h.
  - C. Outdoor Resources and Recreation  
(one course required)  
15:442 Practicum in Camp Leadership . . . . . 2 s.h.  
76:551 Philosophy of Recreation in School  
and Community . . . . . 2 s.h.
  - D. Developing Curriculum Guides, Tools, and  
Materials for Outdoor Education (electives)  
80:420 Water Supply and Conservation  
Problems . . . . . 2 s.h.

- 15:445 Developing Curriculum Guides and  
Materials for Environmental  
Education Programs ..... 2 s.h.
- 15:480 Field Science for Elementary  
Teachers ..... 2 s.h.
- 80:405 Field and Laboratory Studies  
in Science ..... 2 s.h.
- E. Administration and Development of Outdoor  
Education Programs (one course required)
- 15:443 Practicum in Camping Education  
and Administration ..... 3 s.h.

## II. *Environmental Science* ..... 12-18 s.h.

- A. Plants (one course required)
  - 81:422 Fields Studies of Flowering Plants 4 s.h.
  - 81:424 Morphology of Flowering Plants 4 s.h.
  - 81:425 Elementary Plant Physiology ... 4 s.h.
  - 81:520 Plant Physiology ..... 4 s.h.
  - 80:414 Conservation of Plants and  
Animals ..... 2 s.h.
- B. Animals (one course required)
  - 80:412 Field Studies in Science:  
Biological. .... 2 s.h.
  - 81:412 Genetics ..... 2 s.h.
  - 81:414 Field Ornithology ..... 2 s.h.
  - 81:530 Animal Behavior ..... 4 s.h.
  - 81:540 Parasitology ..... 4 s.h.
- C. Soil, Minerals, Natural Resources  
(one course required)
  - 84:406 Paleontology ..... 4 s.h.
  - 80:415 Conservation of Soil and Water . 2 s.h.
- D. Air and Water (electives)
  - 80:420 Water Supply and Conservation  
Problems ..... 2 s.h.
  - 83:410 Meteorology ..... 4 s.h.
  - { 84:430
  - { 84:431 Oceanology and Limnology  
I and II ..... each 2 s.h.



## E. General (electives)

81:512	General Ecology .....	4 s.h.
81:516	Evolution .....	2 s.h.
80:405	Field and Laboratory Studies in Science .....	4 s.h.
80:411	Problems in Field Studies in Science, Physical .....	2 s.h.
80:412	Field Studies in Science: Biological .....	2 s.h.
80:413	Field Studies in Science: Physical .....	2 s.h.
83:406	Astronomy .....	4 s.h.

III. *Social Sciences* (electives) ..... 2-9 s.h.

96:406	Rural Sociology.....	3 s.h.
90:482	Conservation and Rural Economic Life .....	2 s.h.
90:494	Social Studies and Conservation	2 s.h.
93:420	Field Geography and Conservation .....	2 s.h.
80:419	Field Science and Conservation .	2 s.h.
80:411	Problems in Field Science .....	2 s.h.

## Professional Education and Behavioral Science 2-6 s.h.

## A. Research Methods

15:503	Methods and Instruments of Research (required) .....	2 s.h.
15:603	Principles and Practices of Research or an appropriate Departmental Research Seminar (required) ...	2 s.h.

## B. Social Problems and Education (electives)

96:565	Community Resources and Youth .....	3 s.h.
26:427	The Disadvantaged Family .....	3 s.h.
93:421	Population Problems of of the World .....	2 s.h.
96:402	Social Pathologies .....	3 s.h.
96:405	Urban Sociology .....	3 s.h.
96:406	Rural Sociology .....	3 s.h.
96:407	Race and Ethnic Relations in the United States .....	3 s.h.

- C. Curriculum Development (electives)
- |        |  |        |
|--------|--|--------|
| 15:530 | Curriculum Construction<br>in Sec. School .....        | 2 s.h. |
| 15:538 | Curriculum Construction<br>in Elementary Schools ..... | 2 s.h. |
| 15:539 | Seminar in Curriculum<br>Construction .....            | 2 s.h. |
- D. Current Trends and Concerns of Education  
(electives)
- |        |                            |        |
|--------|----------------------------|--------|
| 15:505 | The Two-Year College ..... | 2 s.h. |
|--------|----------------------------|--------|
- E. Behavioral Sciences and Education (electives)
- |        |                        |        |
|--------|------------------------|--------|
| 96:563 | Social Movements ..... | 2 s.h. |
|--------|------------------------|--------|
- Minimum 32 s.h.

## DEPARTMENT OF ENGLISH AND COMPARATIVE LITERATURE

*Graduate Advisor:* — Professor James P. Pettegrove

Graduate study in the Department of English and Comparative Literature is designed for students who are seriously committed to the pursuit of literary experience and literary scholarship. The programs of this department include British, American, and related comparative literatures. For students who plan to go on to doctoral studies, the graduate programs are exploratory and preparatory; for those who plan to teach, they offer substance and depth as well as career-oriented studies.

### REQUIREMENTS FOR MATRICULATION

#### Admission to the Program

A student with an undergraduate major, or a minor of at least 24 semester hours in English, is admitted subject to general college admission requirements, as stated in this bulletin. However, the student who plans a concentration in comparative literature will be required to show reading comprehension in the original language of the foreign literature of his principal concern.

#### The M.A. Program

The candidate for the Master's Degree is expected to be mature enough to select those areas of study which will benefit him most. For advice and suggestions he may request an appointment with the Graduate Advisor and/or other members of the Graduate Faculty.

In order to insure that every recipient of the M.A. Degree in English and Comparative Literature acquires the values and routines which are basic to advanced literary study, two graduate courses and the comprehensive examination are required of all candidates for the degree: English 545 and English 603. English 545 Seminar in Literary Studies (2 s.h.) is designed to counterbalance the frag-

mentation of subject matter which occurs from course to course and to eliminate possible gaps in the student's general literary perspective. This course must be completed satisfactorily prior to admission to English 603.

English 603 English Research Writing gives the student an opportunity to carry on a limited investigation through its documentation, organization, and expression in an acceptable scholarly paper.

The Comprehensive Examination is a test of literary acquaintance, critical judgment, and general sensitivity to the English language in its various historical periods. The student assumes responsibility for his preparation for this examination. The required and elective courses in the department are designed to assist in his preparation, but they may not be sufficient by themselves for satisfactory results on the Comprehensive Examination. Since the Graduate Faculty does not expect competence in all the areas, the Faculty recommends special study of two or three areas, such as Elizabethan drama, eighteenth-century poetry, or the American novel. In the area of Comparative literature, such topics could be expanded to eighteenth-century poetry in England and France or the contemporary novel in Europe and America. The candidate shall declare in writing that he is ready to take the examination. He will then be notified of the time and place. The Comprehensive Examination in this department is given annually in March.

I. *Specialization* ..... 11-20 s.h.

## AMERICAN LITERATURE

Eng. 515	Modern American Criticism .....	3 s.h.
525	Poe, Hawthorne, Melville .....	3 s.h.
529	Emerson, Thoreau, Whitman .....	3 s.h.
533	Twain, James, Howells, Crane .....	3 s.h.
537	American Drama, 1920-1945 .....	3 s.h.
538	American Literature of Social Problems .....	3 s.h.
543	Contemporary American Literature ..	3 s.h.
546	Seminars in American Writers .....	3 s.h.
547	Twentieth-Century American Novel .	3 s.h.
438	Development of Black Thought .....	3 s.h.



## BRITISH LITERATURE

Eng. 502	Victorian Poets . . . . .	3 s.h.
503	Geoffrey Chaucer . . . . .	3 s.h.
504	Elizabethan and Jacobean Dramatists	3 s.h.
506	John Milton . . . . .	3 s.h.
508	English Renaissance Poetry and Prose	3 s.h.
509	Victorian Prose Writers . . . . .	3 s.h.
510	Wordsworth and Coleridge . . . . .	3 s.h.
518	Byron, Shelley, Keats . . . . .	3 s.h.
521	English Literature of Social Problems	3 s.h.
523	William Blake . . . . .	3 s.h.
524	Contemporary British Literature . . .	3 s.h.
531A	Seventeenth-Century English Poetry .	3 s.h.
531B	Seventeenth-Century English Prose . .	3 s.h.
532	Victorian Novel . . . . .	3 s.h.
535A	Defoe, Pope, Swift . . . . .	3 s.h.
535B	Johnson, Gray, Goldsmith . . . . .	3 s.h.
535C	Fielding, Smollett, Sterne . . . . .	3 s.h.
540	Yeats, Eliot, Pound . . . . .	3 s.h.
544A	Shakespeare, Tragedies . . . . .	3 s.h.
544B	Shakespeare, Comedies . . . . .	3 s.h.
544C	Shakespeare, Histories . . . . .	3 s.h.
446	Literature of the Irish Renaissance . .	3 s.h.
455	Restoration Drama . . . . .	2 s.h.
456	The Twentieth-Century English Novel	3 s.h.

## COMPARATIVE LITERATURE

Eng. 500	Greek Classical Drama . . . . .	3 s.h.
511A	Literary Criticism to 1800 . . . . .	3 s.h.
511B	Literary Criticism from 1800 . . . . .	3 s.h.
	to Present . . . . .	3 s.h.
513	The Renaissance in Europe . . . . .	3 s.h.
519A	Myth: Origin and Development . . . .	3 s.h.
519B	Myth: Theory and Practice	
	in Literature . . . . .	3 s.h.
522	Contemporary European Literature . .	3 s.h.
526A	Theory of the Novel . . . . .	3 s.h.
526B	Theory of the Drama . . . . .	3 s.h.
528	New Perspectives in World Literature .	3 s.h.
534	Medieval Epic, Saga, and Romance . .	3 s.h.
539	Theater and Society . . . . .	3 s.h.
545	Seminar in Literary Studies . . . . .	2 s.h.

461	Biography .....	3 s.h.
462	Autobiography .....	3 s.h.
464	Modern Poetry: French Symbolists to T. S. Eliot ....	2 s.h.
472	Literature and Art in Western Culture	2 s.h.
474	Modern Drama on Film .....	3 s.h.
475	The Contemporary Film .....	3 s.h.

## LINGUISTICS

Eng. 501	Anglo-Saxon .....	3 s.h.
512	The English Language .....	3 s.h.
541	The New Grammar .....	3 s.h.
542	Tagmemic Analysis .....	3 s.h.
484	Metaphorical Grammar .....	3 s.h.

## WRITING

Eng. 603	English Research Writing .....	3 s.h.
507	Critical Writing .....	3 s.h.
410	Advanced Creative Writing: Drama ...	3 s.h.
412	Advanced Creative Writing: Poetry ...	3 s.h.
415	Advanced Creative Writing: Prose ....	3 s.h.

## PROFESSIONAL

Eng. 516	Language Problems in the English Curriculum .....	3 s.h.
517	Recent Research and Experiment in the Teaching of English .....	3 s.h.
520	Great Books on Education .....	3 s.h.
Minimum		32 s.h.

II. *Basic Professional Education* ..... 6-9 s.h.

III. *Free Electives* ..... 6-8 s.h.  
Minimum 32 s.h.

IV. *Comprehensive Examination*

## SCHOOL OF FINE AND PERFORMING ARTS

*Graduate Advisor:* — Dr. Charles H. Martens

The graduate program in Fine Arts leading to the Master of Arts degree is intended:

- a. to offer to Fine Arts teachers in the New Jersey public schools an opportunity to gain further professional preparation for the improvement of their teaching skills.
- b. to provide an opportunity for students to extend, intensify, and enrich their undergraduate program of general education in order that they may become better informed and more responsible citizens of a changing society.
- c. to assist students to acquire a more advanced and comprehensive grasp of the major problems, issues, and techniques of professional education.
- d. to provide an opportunity for students to extend their knowledge and experience in their field of specialization.
- e. to encourage the spirit of scientific inquiry and creative, original, and independent thought by providing training and experience in educational research.
- f. to provide experience designed to develop in students desirable personal and social qualities of democratic citizenship.
- g. to encourage the teacher to gain the requisite status for professional advancement.

### Admission Requirements

- a. The requirements established for all graduate studies and for matriculation at the College will be followed in respect to this program.
- b. Matriculation requires completion of a minimum of 36 semester hours in Fine Arts, including both history and studio courses, or equivalent art studies at recognized

institutions.

- c. A portfolio of representative art work will be required as evidence of the applicant's ability. Advice concerning this requirement may be obtained from the Department Graduate Advisor.
- d. The Department may require one or more specified probationary courses prior to matriculation.
- e. Graduate courses in studio work are advanced courses in that a large amount of Fine Arts background is expected, although the student may not have had experience in the particular medium of the course.

## REQUIREMENTS FOR THE M.A. IN FINE ARTS

### I. *Specialization Courses* ..... 11-20 s.h.

Required:

24:590	Modern Philosophies of Art	....	3 s.h.
24:591	Selected Problems in Art History		3 s.h.
24:603	Seminar in Art*	.....	2 s.h.

\*Required of all candidates except students who elect Graduate 600 Master's Thesis.

### Electives:

The following courses will be elected by students subject to approval of the Graduate Advisor:

1. Art Education
 

24:501	Readings in Art Education	....	2 s.h.
24:502	Curriculum Construction in Art Education	.....	2 s.h.
24:603	Seminar in Art	.....	2 s.h.
2. Art History and Philosophy
 

24:401	Philosophy of Art	.....	3 s.h.
24:409	Primitive Art	.....	3 s.h.
24:411	History of American Art	....	3 s.h.
24:412	Art of the Nineteenth Century	..	3 s.h.
24:413	Art of the Twentieth Century	..	3 s.h.
24:620	Field Course in Art	.....	2-6 s.h.



## 3. Fine Arts

24:405A,B,C,D	Home Design and Community Planning	each 2 s.h.
24:406A,B,C,D	Photography: A Con- temporary Art Form .	each 2 s.h.
24:408A,B,C,D	Multi-Media . . . . .	each 2 s.h.
24:419A,B,C,D	Life Drawing . . . . .	each 2 s.h.
24:511A,B,C,D	Painting . . . . .	each 2 s.h.
24:521A,B,C,D	Sculpture . . . . .	each 2 s.h.
24:525A,B	Metalwork and Jewelry	each 2 s.h.
24:531A,B,C,D	Ceramics . . . . .	each 2 s.h.
24:541A,B	Weaving . . . . .	each 2 s.h.
24:543A,B	Decoration of Fabrics	each 2 s.h.
24:550A,B,C,D	Silk Screen Printing .	each 2 s.h.
24:551A,B,C,D	Intaglio Printing . . .	each 2 s.h.
24:552A,B,C,D	Woodcut Printing . . .	each 2 s.h.
24:553A,B,C,D	Lithography . . . . .	each 2 s.h.
24:556	Lettering . . . . .	each 2 s.h.
24:557	Graphic Design . . . .	each 2 s.h.

## 4. Individual Study and Thesis

Graduate 600	Master's Thesis . . . . .	4 s.h.
24:611,612	Individual Study . . . .	each 2 s.h.

II. *Basic Professional Education* . . . . . 6-9 s.h.

III *Free Electives* . . . . . 6-8 s.h.

Minimum 32 s.h.

IV. *Comprehensive Examination*

## DEPARTMENT OF FOREIGN LANGUAGES

### *Graduate Advisors*

French — Dr. Helene Klibbe

Spanish — Dr. Eloisa Rivera-Rivera

It is expected that all candidates for the Master of Arts Degree will take French 505 or Spanish 505 and at least one of the two listed foundation courses, unless similar courses were already taken at the undergraduate level.

A candidate for the Master of Arts Degree may elect to write a thesis in lieu of four of the thirty-two semester hours of credit necessary for the degree. Plans for the thesis should be approved by the Department Chairman no later than one year prior to the anticipated date of graduation, and the work must be completed no later than four months before such anticipated date. It will be the responsibility of the student to observe these time limits.

Study abroad programs, previously required for admission to the Graduate School for French and Spanish majors, are now part of the elective courses offered by the Department either during the summer or on a yearly basis. Outlines of these programs will be found at the end of the list of elective courses. Further details may be obtained from the Graduate Advisor for the Department of Foreign Languages.

All courses are given in the language of the literature studied, except Language 408, Language 603 and other courses as may be necessary.

### **Admission Requirements**

Graduate work toward the Master of Arts degree in the Foreign Languages presupposes the completion of an undergraduate major in French or Spanish.

## REQUIREMENTS FOR THE M.A. DEGREE IN FRENCH

### I. *Specialization* ..... 11-20 s.h.

#### Required Course

41:505	History of the French Language .	2 s.h.
15:603	Principles and Practices of Research .....	2 s.h.
40:603	Foreign Language Research Seminar .....	2 s.h.

#### Elective Courses

These courses will be elected, with Departmental approval, and will be offered on a rotating schedule so as to enable students preparing for their Master's degree to take at least one course on each century within a year, summer session included. Students specializing in French may elect some courses from other Foreign Language offerings.

### II. *Basic Professional Education* ..... 6-9 s.h.

### III. *Free Electives* ..... 6-8 s.h.

Minimum 32 s.h.

### IV. *Comprehensive Examination*

## REQUIREMENTS FOR THE M.A. DEGREE IN SPANISH

### I. *Specialization* ..... 11-20 s.h.

#### Required Course

46:505	History of the Spanish Language	2 s.h.
15:603	Principles and Practices of Research .....	2 s.h.
40:603	Foreign Language Research Seminar .....	2 s.h.

#### Foundation Courses (minimum 2 s.h.)

40:408	Introduction to Language Laboratory .....	2 s.h.
46:506	Advanced Spanish Phonetics ...	2 s.h.





## DEPARTMENT OF HEALTH AND PHYSICAL EDUCATION

*Graduate Advisor* — Dr. Hazel M. Wacker

The graduate program in the Panzer School is designed to assist the student in gaining depth, additional knowledge and understanding in their field of specialization. It provides a variety of opportunities for the student to assess the function of health and physical education in modern society through research; the examination and evaluation of recent developments in education and the field of specialization; experimentation with new methods and techniques; the survey of current as well as historical documents.

### **Admission Requirements**

A major or minor in health or physical education from an accredited college or university constitutes a minimum requirement for admission. A candidate for the Master of Arts Degree in Health or Physical Education should consult the Graduate Advisor of the Panzer School of Health and Physical Education before matriculation. The student with a minor preparation in health or physical education will be requested to undertake designated prerequisites as a part of his program. The student with a major in the above fields may be requested to undertake additional work where deficiencies are apparent. The prerequisite requirements will be in addition to the minimum 32 semester-hour work program.

## REQUIREMENTS FOR THE M.A. DEGREE IN HEALTH OR PHYSICAL EDUCATION

### I. *Specialization* ..... 11-20 s.h.

Students may pursue a concentration in either Physical Education or Health Education, each sequence having its required courses. Electives may be selected from either area within the limits under Elective Courses.

#### A. Required Courses—

##### Physical Education Sequence ..... 12 s.h.

- |        |   |
|--------|---|
| 76:603 | Research Seminar in Physical<br>Education and Health ..... 2 s.h.<br>(Required of all candidates<br>except those students who<br>enroll for Grad. 600.) |
| 76:575 | Foundations and Interpretation of<br>Physical Education ..... 2 s.h.  |
| 76:576 | Curriculum Development in Physical<br>Education; or   |
| 76:577 | Administration and Supervision of<br>Physical Education ..... 2 s.h.  |
| 76:578 | Physical Education for Exceptional<br>Children ..... 2 s.h.   |
| 76:579 | Advanced Tests and Measurements<br>in Physical Education ..... 2 s.h.   |
| 73:526 | Curriculum Development in Health<br>Education; or   |
| 73:529 | Seminar in Basic Issues<br>in Health ..... 2 s.h.   |

#### B. Required Courses—

##### Health Education Sequence. .... 12 s.h.

- |        |   |
|--------|---|
| 76:603 | Research Seminar in Physical<br>Education and Health ..... 2 s.h.<br>(Required of all candidates<br>except those students who<br>enroll for Grad. 600.) |
| 73:525 | History and Foundations of<br>Health ..... 2 s.h.   |

73:526	Curriculum Development in Health Education . . . . .	2 s.h.
73:411	School Health Services; or	
73:527	Healthful School Living . .	each 2 s.h.
73:528	The Evaluation of Health . . . .	2 s.h.
73:529	Seminar in Basic Issues in Health . . . . .	2 s.h.

C. Electives . . . . . 0-8 s.h.

The selection of electives will be determined through advisement and will be based on the needs and interests of each individual.

II. *Basic Professional Education* . . . . . 6-9 s.h.  
(Education 503, Methods and Instruments of Research is required).

III. *Free Electives* . . . . . 6-8 s.h.  
Minimum 32 s.h.

IV. *Comprehensive Examination*

A comprehensive examination is required of all candidates for the Master of Arts degree with the exception of those students who elect Graduate 600, Master's Thesis, in which the student earns four semester-hours credit.

## DEPARTMENT OF HOME ECONOMICS

*Graduate Advisor — Dr. Katharine B. Hall*

Graduate study in the Department of Home Economics provides opportunity for acquiring greater breadth and depth in one of the areas of specialization in this field.

The Graduate program, leading to a Master of Arts degree, offers emphasis in one of three areas: home economics education, family relations, and home management and family economics. Course work in the Home Economics Department as well as related courses in other departments in the College, experience in research methods and techniques and a critical examination of the literature comprise the program.

### Admission Requirements

Matriculation normally will require a Bachelor's degree in Home Economics from an accredited college or university.

### REQUIREMENTS FOR THE M.A. DEGREE IN HOME ECONOMICS

- I. *Specialization* . . . . . 11-20 s.h.
  - A. Core Courses Required of All Candidates . . 7 s.h.
 

26:603	Research Seminar . . . . .	3 s.h.
26:510	Interdisciplinary Study of the Family . . . . .	2 s.h.
26:511	Contemporary Issues in Home Economics	
  - B. Emphasis in Subject Matter . . . . . 4-10 s.h.  
 Select 4-10 s.h. credit from the following:  
 At least one half must be 500 numbered courses.
 

26:520	Dynamics of Family Interaction .	2 s.h.
26:530	The Management of Family Resources . . . . .	2 s.h.
26:540	Child in the Family . . . . .	2 s.h.
26:429	Family Sociology . . . . .	3 s.h.
26:427	The Disadvantaged Family . . . . .	3 s.h.



	26:407	Consumer Economics . . . . .	3 s.h.
	26:403A	Problems in Management . . . . .	3 s.h.
C.		Free Electives . . . . .	0-4 s.h.
	26:550	New Findings in Nutrition . . . . .	2 s.h.
	26:531	Housing the Family . . . . .	2 s.h.
	26:560	Clothing and Human Behavior ..	2 s.h.
	26:406	Tailoring . . . . .	2 s.h.
	26:420	Teaching Family Living in the Public High School . . . . .	2 s.h.
	26:432	Women in Contemporary Society	2 s.h.
	26:426	Home Management in the Secondary School Curriculum ..	2 s.h.
	26:410	Experimental Foods . . . . .	3 s.h.
	26:436	Flat Pattern Design . . . . .	2 s.h.

Courses in other departments related to Home Economics, subject to approval by graduate advisor, may be selected.

II. *Basic Professional Education* . . . . . 6-9 s.h.  
(Education 503, Methods and Instruments of  
Research is required.)

III. *Free Electives* . . . . . 6-8 s.h.  
Minimum 32 s.h.

IV. *Comprehensive Examination*

A comprehensive written-oral examination is required of all candidates for the Master's degree with the exception of those students who elect Graduate 600, Master's Thesis, in which the student earns four semester hours credit.

## DEPARTMENT OF INDUSTRIAL EDUCATION AND TECHNOLOGY

*Graduate Advisor* — Dr. Carl E. Frankson

Graduate work in the Department of Industrial Education and Technology is designed to improve the professional training of industrial arts teachers: (1) to become more proficient in teaching through study of recent trends and new developments in the field, (2) to improve organization of the industrial arts laboratory, (3) to provide a basis for work in administration and supervision. Advanced work in industrial arts and related fields which broaden professional experiences and accent industrial concepts is emphasized.

### Admission Requirements

Individuals who have an undergraduate major in this area, but who do not wish to work toward a degree, may enroll in graduate courses in the department with the consent of the advisor. Graduate work toward the Master of Arts degree in Industrial Education and Technology presupposes the completion of an undergraduate major in Industrial Education and Technology.

### REQUIREMENTS FOR THE M.A. DEGREE IN INDUSTRIAL ARTS

- |  |            |
|--|------------|
| I. <i>Specialization</i> .....                             | 11-20 s.h. |
| A. Required Courses .....                                  | 9 s.h.     |
| 28:501 Curriculum Content and Course<br>Organization ..... | 3 s.h.     |
| 28:502 Shop Planning and Equipment<br>Selection .....      | 3 s.h.     |
| 28:603 Research Seminar<br>in Industrial Arts .....        | 3 s.h.     |

#### B. Electives

Remaining industrial arts courses will be selected from the following offerings, subject to the approval of the graduate advisor. Students must

balance laboratory courses with lecture-seminar courses based on needs and interests of each individual.

1. Laboratory Courses ..... 3-6 s.h.  
To be selected from Senior-Graduate Laboratory Courses.

2. Seminar Courses

28:508	Historical and Contemporary Industrial Arts Literature ....	3 s.h.
28:511	Supervision of Industrial Arts .	3 s.h.
28:601	Independent Studies in Industrial Arts .....	3 s.h.

II. *Basic Professional Education* ..... 6-9 s.h.

III. *Free Electives* ..... 6-8 s.h.

Minimum 32 s.h.

IV. *Comprehensive Examination*

A comprehensive written-oral examination is required of all candidates for the Master's degree with the exception of those students who elect Graduate 600, Master's Thesis, in which the student earns four semester hours credit.

## DEPARTMENT OF MATHEMATICS

*Graduate Advisor* — Dr. Matt Merfeld

The courses listed in the Mathematics offering are designed to meet three specific needs. To meet the needs of the teacher of mathematics, the department offers a Masters of Arts Degree in Mathematics Education. To meet the needs of those interested in an extensive study of both mathematical theory and its applications in science and industry, the department offers a Masters of Arts Degree in Pure and Applied Mathematics. For those whose mathematical education needs to be updated, the department offers a series of courses in workshops. The courses numbered from 400 to 419 and from 500 to 519 are for this purpose. Such courses may not be credited towards either M.A. degree without special permission from the Graduate Advisor.

### Admission Requirements

A candidate for the Master of Arts Degree in Mathematics should consult the Graduate Advisor of the Mathematics Department before matriculation since the choice of graduate courses should be adjusted to the preparation acquired in undergraduate work. The student's work program, for a minimum of thirty-two semester hours of work, is prepared in consultation with the Graduate Advisor. Any changes in the work program are made only with the written approval of that advisor.

The candidate for the M.A. degree must present an undergraduate major of at least 30 semester hours in mathematics. Courses in engineering and science that have a substantial mathematical content may be submitted toward this requirement. Candidates whose undergraduate preparation is deficient in either depth or breadth may be required to complete certain prerequisites which will not carry graduate credit.



## REQUIREMENTS FOR THE M.A. IN PURE AND APPLIED MATHEMATICS

### I. *Required Courses* . . . . . 12 s.h.

Three one year courses selected as follows:

Analysis:

50:521-2 Real Variables I, II . . . . . each 2 s.h.  
or

50:523-4 Measure & Integration I, II . . each 2 s.h.  
or

50:525-6 Complex Variables I, II . . . . each 2 s.h.  
or

50:527-8 Functional Analysis, I, II . . . . each 2 s.h.

Algebra:

50:531-2 Abstract Algebra I, II . . . . . each 2 s.h.  
or

50:535-6 Linear Algebra I, II . . . . . each 2 s.h.

An additional one year course to be elected

### II. *Mathematics Electives* . . . . . 14 s.h.

Courses selected from: 50:520 to 50:569

or from: 50:420 to 50:465

with at least 10 semester hours at the 500 level.

### III. *Free Electives* . . . . . 6 s.h.

Minimum 32 s.h.

### IV. *Comprehensive Examination*

## REQUIREMENTS FOR THE M.A. IN MATHEMATICS EDUCATION

### I. *Specialization* . . . . . 20 s.h.

#### A. Pure and Applied Mathematics . . . . . 14 s.h.

Courses must be selected from at least 4  
of the 5 areas:

Algebra:

50:431 Foundations of  
Modern Algebra . . . . . 3 s.h.

50:428 Introduction to Topology . 3 s.h.

50:531-2 Abstract Algebra I, II . . each 2 s.h.

50:535-6 Linear Algebra I, II . . . . each 2 s.h.

Analysis:

- 50:420 Differential Equations . . . . 2 s.h.
- 50:425-6 Advanced Calculus I . . . each 3 s.h.
- 50:521-2 Real Variables I, II . . . . each 2 s.h.
- 50:525-6 Complex Variables I, II each 2 s.h.

Probability & Statistics:

- 50:443-4 Statistics:
  - Theory & Applications . each 3 s.h.
- 50:540-1 Probability I, II . . . . . each 2 s.h.
- 50:543-4 Mathematical Statistics
  - I, II . . . . . each 2 s.h.

Geometry:

- 50:450 Foundations of Geometry . 3 s.h.
- 50:551-2 Topology I, II . . . . . each 2 s.h.
- 50:554 Projective Geometry . . . . . 2 s.h.
- 50:555 Differential Geometry . . . . 2 s.h.

Computers:

- 50:461 Introduction to
  - Computer Science . . . . . 3 s.h.
- 50:560-1 Numerical Analysis I, II each 2 s.h.
- 50:562-3 Computer Science I, II . each 2 s.h.

B. Mathematics Education . . . . . 6 s.h.

- 50:590 Research Seminar in Mathematics
  - Education plus two additional courses selected from:
- 50:570 Administration and Supervision
  - of Mathematics . . . . . 2 s.h.
- 50:571 Curriculum Construction
  - in Mathematics . . . . . 2 s.h.
- 50:572 Teaching of General Mathematics 2 s.h.
- 50:573 Mathematics Materials for
  - the Teacher of Mathematics . . . . 2 s.h.
- 50:574 Problem Analysis
  - in Secondary Mathematics . . . . . 2 s.h.
- 50:575 Selected Topics in Mathematics

II. *Basic Professional Education* . . . . . 6 s.h.

III. *Free Electives* . . . . . 6 s.h.

Minimum 32 s.h.

IV. *Comprehensive Examination*

## DEPARTMENT OF MUSIC

*Graduate Advisor — Dr. Jack Sacher*

Graduate study in the Department of Music is designed:

1. To offer music teachers in public schools, as well as studio teachers, an opportunity to gain further professional preparation for the improvement of their teaching skills.
2. To provide an opportunity for students to deepen and enrich their program in general education; to enable them to acquire a more advanced grasp of the problems in professional education; and to move forward in their fields of specialization.
3. To encourage the spirit of scientific inquiry and creative, original, and independent thought by providing training and experience in educational research.
4. To encourage the teacher to gain the requisite status for professional advancement.

### Admission Requirements

In addition to the general college graduate admission requirements as stated elsewhere in this catalog, a student must also have an undergraduate major in music. He must also be able to demonstrate competency in an accepted performing medium.

### REQUIREMENTS FOR THE M.A. DEGREE IN MUSIC

1. *Specialization Courses* ..... 11-20 s.h.
  - A. Required
    - 60:603 Seminar in Research  
in Music Education ..... 2 s.h.
  - B. Remainder of specialized courses chosen by student and advisor on basis of need from the following courses:
    1. Music Education
      - 60:505 Problems and Materials

	of Stringed Instruments . . . . .	2 s.h.
60:506	Problems and Materials of Woodwind Instruments . . .	2 s.h.
60:508	Problems and Materials of Percussion Instruments . . .	2 s.h.
60:509	Problems and Materials of Brass instruments . . . . .	2 s.h.
60:521	Classroom Methods . . . . . each	2 s.h.
	A. Piano	
	B. Brass	
	C. Woodwinds	
	D. Strings	
	E. Percussion	
	F. Voice	
60:523	Problems and Materials of Vocal Production . . . . .	2 s.h.
2. History and Literature		
60:406	Modern Music . . . . .	2 s.h.
60:407	Development of Opera . . . . .	2 s.h.
60:413	Masters of the Symphony . . .	2 s.h.
60:520A	Survey of Instrumental Music .	2 s.h.
60:520B	Survey of Choral Music . . . .	2 s.h.
60:424	Survey of Wind Instrument Music . . . . .	2 s.h.
3. Theory and Harmony		
60:511	Aural Theory . . . . .	2 s.h.
60:512	Advanced Aural Theory (prerequisite 60:511) . . . . .	2 s.h.
60:513	Composition (prerequisite 60:512) . . . . .	2 s.h.
60:516	Advanced Instrumentation (prerequisite 60:511) . . . . .	2 s.h.
60:517	Theory of Sound . . . . .	2 s.h.
(Note: Candidates who pass, by examination, 60:511, Aural Theory, may take 60:512, Advanced Theory.)		
4. Skills		
*60:501	Applied Music I: Primary Instrument . . . . .	2 s.h.
*60:502	Applied Music II: Primary Instrument . . . . .	2 s.h.



*60:503	Applied Music I:	
	Secondary Instrument . . . . .	1 s.h.
*60:504	Applied Music II:	
	Secondary Instrument . . . . .	1 s.h.
60:529	Advanced Choral Conducting .	2 s.h.
60:530	Advanced Instrumental	
	Conducting . . . . .	2 s.h.
*See Special Tuition Charges For Applied Music Study.		

II. *Basic Professional Education* . . . . . 6-9 s.h.

III. *Free Electives* . . . . . 6-8 s.h.

Minimum 32 s.h.

IV. *Comprehensive Examination*

V. *Thesis* (Optional — May be elected with approval of the Graduate Advisor; thesis may be undertaken in lieu of 4 s.h. of class work.)

## SPECIAL TUITION CHARGES FOR APPLIED MUSIC STUDY

Instruction in applied music (60:503A, 503B, 510A, 510B) is on an individual basis and a special fee is charged in addition to the regular college fees and tuition. Students registering in a one semester-hour course pay an additional \$75 and those in a two semester-hour course, \$150 for private instruction.

Before registering in applied music, consult with the Graduate advisor for the Music Department.

## DEPARTMENT OF PSYCHOLOGY

*Graduate Advisor — Dr. Herbert J. Hauer*

The Department of Psychology offers three distinct and interrelated graduate programs:

1. The M.A. in Educational psychology aims to increase one's knowledge of the application of psychological theory to educational practice.
2. The M.A. in Psychology is designed as a terminal or intermediate degree. It prepares the student for doctoral work in areas such as clinical psychology, counseling psychology, school psychology, personality, social psychology, industrial psychology, developmental psychology, etc.
3. The School Psychologist Certification Program is designed to meet the need for school psychologists by offering an integrated sequence of courses and supervised school, clinical, and community experiences.

### REQUIREMENTS FOR ADMISSION TO THE M.A. PROGRAM IN EDUCATION PSYCHOLOGY

Candidates for this program must meet admission requirements of the Graduate Division of the College as stated in the general admission requirements.

### REQUIREMENTS FOR ADMISSION TO THE M.A. PROGRAM IN PSYCHOLOGY

Candidates for this program must meet admission requirements of the Graduate Division of the College as stated in the current graduate bulletin. In addition, candidates must meet the following department requirements:

- (1) 12 undergraduate credits in psychology
- (2) a laboratory course in experimental psychology and a course in statistics\*

- (3) Miller Analogies Test and the Aptitude Test of the Graduate Record Examination
- (4) Approval by departmental committee

Preparation in the biological sciences and mathematics is desirable.

\*If the student lacks experimental psychology or statistics, he may be admitted as an unclassified graduate student by including such requirements in his program, to be taken without credit.

## REQUIREMENTS FOR ADMISSION TO THE SCHOOL PSYCHOLOGIST CERTIFICATION PROGRAMS

Candidates for this program must meet admission requirements of the Graduate Division of the College as stated in the current graduate bulletin. In addition, candidates must meet the following department requirements:

- (1) 12 undergraduate credits in psychology
- (2) Miller Analogies Test and the Aptitude Test of the Graduate Record Examination
- (3) Recommendations from at least two individuals on candidate's ability to cope with advanced graduate work and suitability for the program
- (4) Approval by departmental committee

## REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN EDUCATIONAL PSYCHOLOGY . . . . . 32 s.h.

### I. *Basic Courses* — All required — 15 s.h.

65:510	Research Methods in Psychology . . . .	3 s.h.
65:560	Advanced Educational Psychology . . .	3 s.h.
65:561	Developmental Psychology . . . . .	3 s.h.
65:578	Psychological Tests and Measurements	3 s.h.
65:660	Seminar in Educational Psychology . .	3 s.h.

### II. *Educational Foundations* — Select 6 s.h.

15:406	Educational Sociology . . . . .	3 s.h.
15:510	Introduction to Educational Administration . . . . .	2 s.h.
15:530	Curriculum Construction in the Secondary School or . . . . .	2 s.h.

15:538	Curriculum Construction in the Elementary School . . . . .	2 s.h.
15:533	Philosophy of Education . . . . .	2 s.h.
90:565	Community Resources and Youth . . .	3 s.h.
91:534	Anthropology and Education . . . . .	2 s.h.
91:405	Psychological Anthropology . . . . .	3 s.h.
91:535	Ethnology I . . . . .	3 s.h.

### III. *Specialization* — Select 6 s.h.

65:564	Psychology and Education of the Physically and Mentally Handicapped	3 s.h.
65:565	Psychology and Education of the Socially and Emotionally Handicapped	3 s.h.
65:566	Psychology and Education of the Gifted. . . . .	3 s.h.
65:572	Teaching the Mentally Handicapped . .	3 s.h.
	Select 5 s.h.	
65:550	Quantitative and Statistical Methods . . . . .	3 s.h.
65:522	General Social Psychology . . . . .	3 s.h.
65:562	Dynamics of Human Behavior . . . . .	3 s.h.
65:563	Theories of Learning . . . . .	3 s.h.
65:573	Physiological Psychology . . . . .	3 s.h.
65:580	Personality . . . . .	3 s.h.
65:581	Motivation . . . . .	3 s.h.
15:588	Techniques of Interviewing and Counseling. . . . .	2 s.h.
	Minimum	32 s.h.

### IV. *Examination*

A candidate is required to pass a written comprehensive examination prior to graduation.

V. *A candidate may write a thesis upon approval of his advisor.* Four semester hours will be given for the completion of the thesis and the credits will be included in area III.



## REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN PSYCHOLOGY — 32 s.h.

### I. *Basic Courses* — all required — 12 s.h.

65:520	Proseminar in Psychology I . . . . .	3 s.h.
65:521	Proseminar in Psychology II . . . . .	3 s.h.
65:550	Quantitative and Statistical Methods . . . . .	3 s.h.
65:670	Thesis I . . . . .	3 s.h.

### II. *Elective Courses* — Select 15 s.h.

65:551	Experimental Psychology . . . . .	3 s.h.
65:552	General Social Psychology . . . . .	3 s.h.
65:553	Urban Psychology . . . . .	3 s.h.
65:554	Psychology in Business and Industry . . . . .	3 s.h.
65:561	Developmental Psychology . . . . .	3 s.h.
65:563	Theories of Learning . . . . .	3 s.h.
65:567	Abnormal Psychology . . . . .	3 s.h.
65:568	Psychology of Group Dynamics . . . . .	3 s.h.
65:573	Physiological Psychology . . . . .	3 s.h.
65:578	Psychological Tests and Measurements . . . . .	3 s.h.
65:579	Seminar in Psychological Tests and Measurements . . . . .	3 s.h.
65:580	Personality . . . . .	3 s.h.
65:581	Motivation and Emotion . . . . .	3 s.h.
65:582	Behavior Modification . . . . .	3 s.h.
65:583	Sensation and Perception . . . . .	3 s.h.
65:584	Comparative Psychology . . . . .	3 s.h.
65:663	Independent Study . . . . .	3 s.h.
65:571	Thesis II . . . . .	3 s.h.

### III. *Free Electives* . . . . . 5 s.h.

Total 32 s.h.

IV. *Examinations* — Candidate is required to pass a written comprehensive examination before acceptance of the thesis outline and an oral examination upon completion of the thesis.

V. *Département Colloquium* (0 s.h.) — Graduate students and faculty are invited to attend this seminar. Each student presents his proposed thesis. The faculty and guests also present current research.

**REQUIREMENTS FOR SCHOOL PSYCHOLOGIST CERTIFICATION (N.J. State Certificate as a School Psychologist)**  
**— 60 s.h.**

**I. *Educational Foundations* — Select 12 s.h.**

15:510	Introduction to Educational Administration . . . . .	2 s.h.
15:530	Curriculum Construction in the Secondary School or . . . . .	2 s.h.
15:538	Curriculum Construction in the Elementary School . . . . .	2 s.h.
15:533	Philosophy of Education . . . . .	2 s.h.
96:565	Community Resources and Youth . . .	3 s.h.
91:534	Anthropology and Education . . . . .	2 s.h.
65:553	Urban Psychology . . . . .	3 s.h.
65:560	Advanced Educational Psychology . . .	3 s.h.
65:660	Seminar in Educational Psychology . .	3 s.h.

**II. *Education of the Handicapped* — Select 6 s.h.**

65:564	Psychology and Education of the Physically and Mentally Handicapped . . .	3 s.h.
65:565	Psychology and Education of the Socially and Emotionally Handicapped . . .	3 s.h.
65:572	Teaching and Mentally Handicapped . .	3 s.h.

**III. *Testing and Clinical Techniques* — Select 25 s.h.**

65:510	Research Methods in Psychology . . . .	3 s.h.
65:574	Individual Intelligence Testing . . . . .	3 s.h.
65:575	Projective Techniques I . . . . .	3 s.h.
65:576	Projective Techniques II . . . . .	3 s.h.
65:578	Psychological Tests and Measurements . . . . .	3 s.h.
65:579	Seminar in Psychological Tests and Measurements . . . . .	3 s.h.
65:590	Diagnostic Case Studies I . . . . .	3 s.h.
65:661	Practicum in School Psychology . . . . .	3 s.h.
65:662	School Psychologist Externship . . . . .	3 s.h.
15:588	Techniques of Interviewing and Counseling . . . . .	2 s.h.

IV. *Personality and Behavior Development* — Select 12 s.h.

65:561	Development Psychology . . . . .	3 s.h.
65:562	Dynamics of Human Behavior . . . . .	3 s.h.
65:563	Theories of Learning . . . . .	3 s.h.
65:567	Abnormal Psychology . . . . .	3 s.h.
65:573	Physiological Psychology . . . . .	3 s.h.
65:580	Personality . . . . .	3 s.h.
65:582	Behavior Modification . . . . .	3 s.h.
91:405	Psychological Anthropology . . . . .	3 s.h.

V. *Electives*

— Select courses to balance the program of 60 s.h.

65:566	Psychology and Education of the Gifted . . . . .	3 s.h.
65:581	Motivation and Emotion . . . . .	3 s.h.
65:583	Sensation and Perception . . . . .	3 s.h.
65:584	Comparative Psychology . . . . .	3 s.h.
65:663	Independent Study . . . . .	3 s.h.
96:569X	Social Pathologies . . . . .	2 s.h.

Total 60 s.h.

## DEPARTMENT OF SCIENCE

### *Graduate Advisors*

Department of Biology — Dr. Leah K. Koditschek

Department of Chemistry — Dr. Joseph F. Becker

Department of Physics and Earth Sciences —

Mr. Imad Hamdan

The graduate programs in the Science Departments are designed to enable the student to pursue further study in the various areas of science for academic, professional or personal reasons. In the area of **Specialization**, within the requirements for the M.A. degree, the student has a choice of concentrating in either Biology, Chemistry, Physics, Earth Sciences, or combining any or all of the fields.

For the science teacher, a graduate program is designed to help to maintain professional competence with respect to recent advances in the various areas of science and science education. The increased number of senior-graduate and graduate course offerings in the various fields affords the opportunity for a non-teaching graduate student to study in depth in a given area.

### **Admission Requirements**

Prior to matriculation in any of the departments of the sciences for the Master of Arts degree, the student should have completed at least two different areas of science plus sufficient depth in at least one area to serve as a basis for the graduate program.

In cases where there is a weak undergraduate program in the major field, prerequisite courses, not for graduate credit, may be required. In general, the assignment of elective hours to the major area will compensate for deficiencies in depth of preparation while prerequisite courses will compensate for deficiencies in breadth.



## REQUIREMENTS FOR THE M.A. DEGREE IN THE DEPARTMENTS OF THE SCIENCES

### I. *Specialization* . . . . . 11-20 s.h.

- A. The candidate must complete the research requirement by one of the two procedures listed below:
  - 80:505 Research Seminar in Science . . . . 2 s.h.
  - Graduate 600 Master's Thesis . . . . . 4 s.h.
- B. The candidate must complete 3 four-semester or three-semester hour courses offered by the Departments of the Sciences.
- C. The candidate may elect not more than three semester hours from among the following:
  - 81:501 The Teaching of Biology  
in Secondary Schools . . . . . 3 s.h.
  - 82:501 The Teaching of Chemistry  
in Secondary Schools . . . . . 3 s.h.
  - 83:501 The Teaching of Physics  
in Secondary Schools . . . . . 3 s.h.

### II. *Basic Profession Education* . . . . . 6-9 s.h.

### III. *Free Electives* . . . . . 6-8 s.h.

Minimum 32 s.h.

### IV. *Comprehensive Examination*

The comprehensive examination will be based upon the research report in 80:505 or the Master's Thesis.

## PROGRAMS IN THE SOCIAL SCIENCES\*

### *Graduate Advisors*

Social Sciences — Dr. Bertha B. Quintana

History — Dr. Richard J. Barker

The social sciences comprise a number of disciplines, the boundaries of which are constantly changing and expanding. At the same time, research within the disciplines is becoming more specialized. The necessity for constant study, therefore, presses upon everyone involved in the social sciences whether he is teaching or working in government, industry, or the other helping professions. The Departments of Social Sciences provide programs of an advanced character which reflect sound developments in scholarships in the various fields. It also offers advanced courses for teachers who wish to increase their preparedness in specialized secondary school subjects. Finally, it aims to provide for the teacher-in-service an opportunity for keeping informed about changing techniques and problems related to teaching the social studies. Selections from advanced courses lead to the Master's degree in the social sciences, with concentration in a particular field.

### Admission Requirements

In addition to the general requirements for admission to the graduate program at Montclair, a candidate for the degree of Master of Arts in Social Sciences must present an undergraduate major in social sciences of at least twenty-four semester hours.

### REQUIREMENTS FOR M.A. DEGREE IN SOCIAL SCIENCES

#### I. *Specialization* ..... 11-20 s.h.

Each student will take a minimum of eleven and a maximum of twenty semester hours in courses offered by the departments of the social sciences. It is recommended that students develop a concentration by electing at least half of their specialization requirement in

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\*Course offerings from the Departments of Anthropology, Economics, Geography, History, Political Science, Sociology.

one of the following areas of study:

1. American History
2. European History
3. Anthropology
4. Economics
5. Geography
6. Political Science
7. Sociology
8. Non-Western Culture

At times two or more of these areas may be combined to make up such a concentration. The balance of the student's program will be made up of electives in other areas and related major fields.

II. *Basic Professional Education* ..... 6-9 s.h.

III. *Free Electives* ..... 6-12 s.h.

IV. *Independent Study and Comprehensive Examination*

Every master's degree candidate is required to register for 90:603 (2 s.h.) which entails directed independent study in preparation for a final integrative comprehensive examination. 90:603 counts towards the student's specialization, but not his concentration.

Minimum 32 s.h.

## DEPARTMENT OF SPEECH PATHOLOGY

*Graduate Advisor — Dr. Harold Scholl*

The graduate program in speech, language, and hearing rehabilitation leads to:

1. Increased skills and qualifications as a therapist in public schools or in special institutions such as hospitals.
2. Completion of the requirements for certification in the State of New Jersey and in the American Speech and Hearing Association.

Although the program entails no specific specialization within the discipline of speech and language rehabilitation, students are given the opportunity, the encouragement, and the guidance to pursue, through independent study, their special interests. In addition to the basic areas of voice and speech rehabilitation, the department currently offers special programs in the evaluation and management of children who have special learning disabilities, who have emotional disturbance, or who have auditory disorders.

The department stresses a holistic, interdisciplinary approach to the understanding and remediation of communication disorders, with some guidance in research but with emphasis on clinical skills. Successful students are those who have a strong need to understand thoroughly the bases of clinical procedures, who work well with or without supervision, and who, with guidance from the staff, initiate independent projects and take responsibility for personal growth in intellectual and in clinical skills.

### Admission Requirements

Students wishing to matriculate in this area of specialization must have completed the equivalent of 30 s.h. from among the following areas:

- A. Professional Education — A minimum of 9 s.h., including one course from each of the following areas: Principles and practices of education, Educa-



tional psychology, and Curriculum.

- B. Specialization — A minimum of 18 s.h. from among the following areas: Psychology and Education of the Handicapped, Phonetics, Anatomy and Physiology of the Auditory and Vocal Mechanism, Speech Correction, Speech Pathology, Clinical Practices in Speech, Measurement of Hearing (Audiology), and Voice and Speech Improvement.

Each student must also be capable of setting an example of acceptable speech. If his voice and speech patterns are considered to be substandard, he will be required to take steps to increase his competency; if the speech problem is severe, he may be refused permission to matriculate.

## REQUIREMENTS FOR THE M.A. IN SPEECH PATHOLOGY

### I. *Specialization* ..... 11-20 s.h.

#### A. Required Courses: ..... 9 s.h.

- 21:535A Graduate Seminar in Speech,  
Hearing and Language Disorders . 3 s.h.  
21:535B Graduate Practicum in Speech,  
Hearing and Language Disorders . 3 s.h.  
21:531 Advanced Audiology, or  
approved elective ..... 3 s.h.  
21:592 Areas and Techniques of  
Research in Speech ..... 3 s.h.

#### B. B. Elective Courses: ..... 2-11 s.h.

Selection from among the following courses will be determined through advisement and will be based on needs and interests.

- 21:411 Advanced Speech Pathology .... 3 s.h.  
21:412 Speech Diagnosis ..... 3 s.h.  
21:439F Voice Disorders ..... 2 s.h.  
21:439G Speech Correction ..... 2 s.h.  
21:481A, Teaching Neurologically  
481B Impaired Children ..... each 2 s.h.  
21:582 Stuttering ..... 2 s.h.  
21:483A, Methods and Material in Teaching  
483B to Language Impaired Children each 2 s.h.  
21:484 Cleft Palate and

	Oral Deformities . . . . .	2 s.h.
21:533	Supervision of Speech and Hearing Programs . . . . .	2 s.h.
21:534	Advanced Anatomy and Physiology of the Vocal and Auditory Mechanisms . . . . .	3 s.h.
21:522	Advanced Phonetics . . . . .	2 s.h.
21:532A	Practicum in Speech Rehabilitation . . . . .	2 s.h.
21:464	Psychology of Oral Communication . . . . .	2 s.h.
21:472	Voice Science . . . . .	2 s.h.
21:594A	Independent Study in Speech 594B Rehabilitation . . . . .	each 1 s.h.
21:469	Auditory Rehabilitation . . . . .	2 s.h.
21:531	Advanced Audiology . . . . .	3 s.h.
21:550	Advanced Study of Voice and Speech Production . . . . .	3 s.h.

III. *Free Electives* . . . . . 6-12 s.h.  
Minimum 32 s.h.

IV. *Additional Departmental Requirements:*

- A. Written Comprehensive Examination
- B. Majors in speech pathology must complete a total of 275 hours of supervised direct clinical experience.

## DEPARTMENT OF SPEECH AND THEATER

*Graduate Advisor* — Dr. Clyde W. McElroy

Graduate students in speech and theater may pursue a Master of Arts degree with any of these goals, (1) to increase their skills as a teacher of speech and theater, (2) to prepare for further graduate study, (3) or to pursue professional activity.

The program has increased in flexibility, permitting more freedom of course choices. Admission requirements to the program have also been altered; state certification is no longer necessary for those not desiring to teach in public schools.

The new speech wing on Memorial Auditorium has given the department an additional uniquely flexible theater for classes and experimentation that will add immeasurably to the value of the program.

### Admission Requirements

Students wishing to matriculate in this area of specialization must have completed the equivalent of at least 18 s.h. from among the following areas: Fundamentals of Speech, Public Speaking, Oral Interpretation, and theater.

Each student must also be capable of setting a good example of acceptable speech. If his voice and speech patterns are considered to be substandard, he will be required to take steps to improve his competency; if the speech problem is severe, he may be refused permission to matriculate.

### REQUIREMENTS FOR THE M.A. DEGREE IN SPEECH AND THEATER

<i>Specialization</i> .....	11-20 s.h.
A. Required Courses .....	10-12 s.h.
Select two of the following	
21:440 or 441 Theater History .....	2 s.h.
21:449 Contemporary Public Address ..	2 s.h.

21:490 Group Discussion & Leadership .	3 s.h.
21:491 Argumentation and Debate . . . .	3 s.h.
21:565 Advanced Oral Interpretation ..	2 s.h.
21:567 Seminar in Dramatic Production	6 s.h.

- B. Electives: Selected through advisement based on needs and interest . . . . . 8-10 s.h.
- |   |        |
|---|--------|
| 21:435 Fundamentals of Stage Lighting .   | 3 s.h. |
| 21:438 Creative Dramatics . . . . .       | 2 s.h. |
| 21:440 Theater History:                   |        |
| Classical to Elizabethan . . . . .        | 2 s.h. |
| 21:441 Theater History:                   |        |
| Restoration to Modern . . . . .           | 2 s.h. |
| 21:448 Choral Speaking . . . . .          | 2 s.h. |
| 21:449 Contemporary Public Address ..     | 2 s.h. |
| 21:457 Directing the Assembly Program     | 2 s.h. |
| 21:464 Psychology of Oral Communication   | 2 s.h. |
| 21:471 Advanced Acting . . . . .          | 2 s.h. |
| 21:490 Group Discussion and Leadership    | 3 s.h. |
| 21:491 Argumentation and Debate . . . .   | 3 s.h. |
| 21:550 Advanced Study of Voice and Speech |        |
| Production . . . . .                      | 3 s.h. |
| 21:563 Scenery Design and Construction    | 3 s.h. |
| 21:565 Advanced Oral Interpretation ..    | 2 s.h. |
| 21:566 Costume and Make-up for Stage .    | 3 s.h. |
| 21:590 Problems in the Teaching of Speech | 3 s.h. |
| 21:591 Organization and Administration    |        |
| of School Speech Programs . . . . .       | 2 s.h. |

II. *Basic Professional Education* . . . . . 6-9 s.h.

III. *Free Electives* . . . . . 6-12 s.h.

15:603 is recommended for students planning further graduate work

minimum 32 s.h.

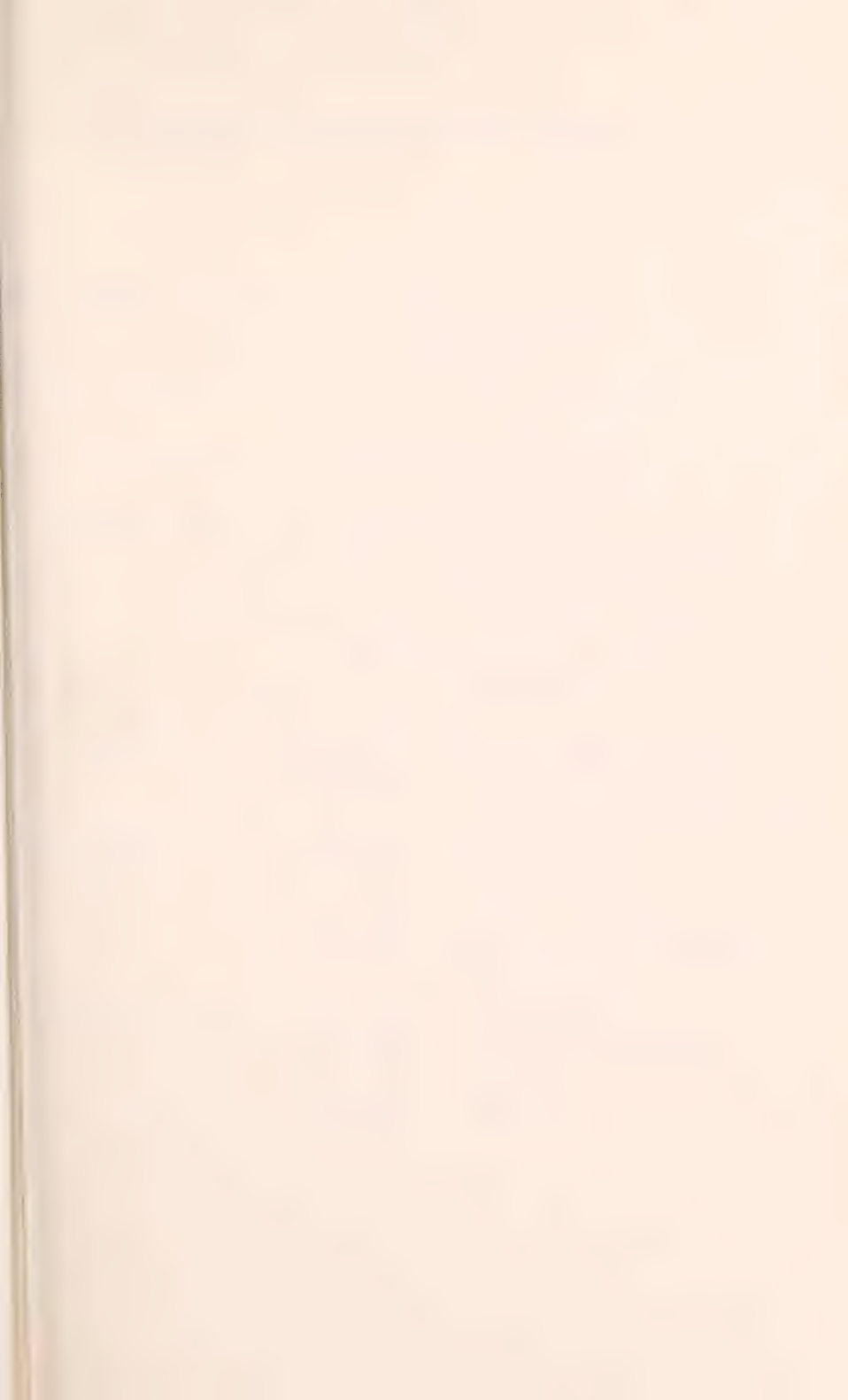
IV. *Additional Departmental Requirements:*

A. Written Comprehensive Examination

B. Student must enroll as a full-time student in the summer theater workshop









## ***CORRESPONDENCE DIRECTORY:***

Mailing Address: Montclair State College

Upper Montclair, New Jersey 07043

Telephone Number: Area Code (201) 746-9500

*Specific correspondence should be addressed as follows:*

General Interest of the College	President
Academic Program	Vice-President, Instruction
Admissions, Catalogs	Director of Admissions
Alumni	Executive Secretary, Alumni Association
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Certification and Evaluation, Teacher Certificates	Counselor and Certification Advisors, Evening Division
Evening Graduate and Undergraduate Division and Summer Session	Director, Evening Division and Summer Session
Payment of Fees	Director, Business Services
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Student Activities and Regulations	Dean of Students
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GRADUATE PROGRAMS

**MONTCLAIR STATE COLLEGE**

UPPER MONTCLAIR, N. J. 07043

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1972

1973

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Montclair, New Jersey

RETURN TO  
REFERENCE DESK





# ACADEMIC CALENDAR

## Summer, 1972

Monday, June 26	Summer Session Classes begin
Tuesday, June 27	Late Registration ends, 4 p.m.
Tuesday, July 4	Holiday, No Classes
Friday, August 4	End of Summer Session

## Fall, 1972-1973

September 11	Classes Begin
November 23	Thanksgiving Recess Begins
November 27	Classes Resume
December 23	Christmas Recess Begins
January 2, 1973	Classes Resume
January 10, 1973	Classes End

## Short Term, 1973

January 15, 1973 through February 2, 1973

## Spring, 1973

February 8, 1973	Classes Begin
April 16	Spring Recess
April 24	Classes Resume
June 6	Classes End
June 10, 1973	Commencement

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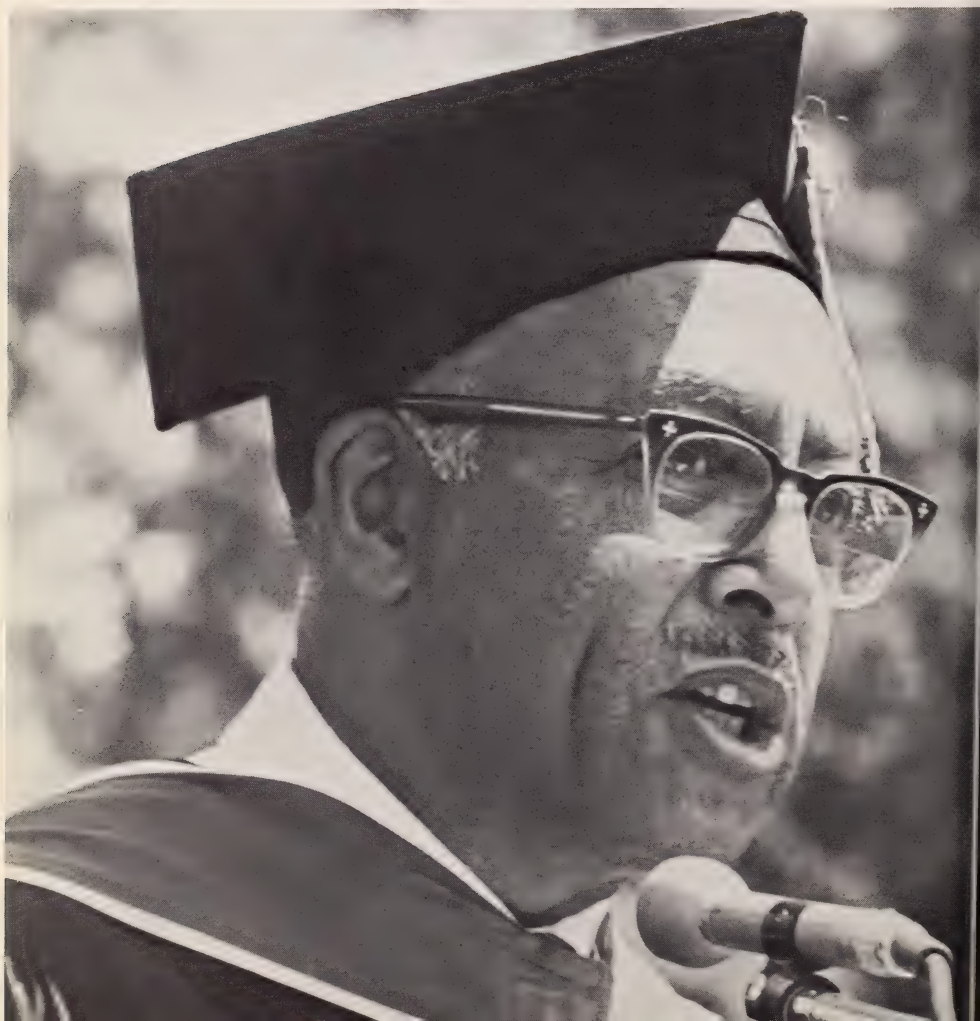
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## ABOUT THE COLLEGE

Montclair State College is a publicly-supported institution of higher learning, offering programs on the master's and bachelor's degree levels to 13,300 students.

The College, founded in 1908 as a Normal School, now includes six undergraduate schools and a Division of Graduate Studies. The Graduate Division was established in 1932.

Although the College is large, its individual schools and programs are small enough to ensure intimate instruction and advisement for each student. In keeping with a liberal tradition dating from its founding, the College is open to all qualified students without restriction as to religion, national or racial origins, age or sex.

### Faculty

A full- and part-time faculty of 480 men and women teach more than 1500 different courses. Through extensive summer and evening programs, educational opportunities are opened to ambitious students who cannot give full time to their studies.

### History and Governance

From 1908 through 1927, the College was a Normal School, oriented to the education of public-school teachers. In 1927, the College became the State Teachers College at Montclair to prepare secondary-school teachers.

On July, 1958, the College assumed its present name, Montclair State College, to reflect its stress on traditional graduate and undergraduate education in the liberal arts and sciences. Since that time, the College has placed increasingly greater emphasis on the training of future scholars, government and business administrators and managers, lawyers, physicians, dentists, scientists and researchers, journalists and writers, while maintaining its traditional excellence in secondary-school teacher education.

The New Jersey Higher Education Act of 1966 transferred governance of the College from the State Department of Education to the College's own board of trustees. This board consists of nine citizens of New Jersey, appointed by the Governor of the State on the recommendation of the State Board of Higher Education, and the president of the College, *ex officio*. This change in the governance of the College, which took effect July 1, 1967, gave the College increased independence over the management of its own programs.

### Goals of the College

Since the establishment of the College's board of trustees, the program offerings at the College have been constantly expanded. Today, as a result of these extensive programs on graduate and undergraduate levels, the College is a multi-purpose institution, offering a broad range of courses and programs to students with many varying needs, interests and career aims.

Throughout its existence, Montclair State College has been loyal to the basic needs of higher education: recruiting a scholarly, dedicated faculty; selecting earnest students of high academic standing; devising and operating



as full and thorough a curriculum as possible; providing extracurricular experiences to extend and enrich the cultural horizons of the college community; keeping alert for opportunities to make the educational process increasingly effective and emphasizing the importance of the individual within a technological society.

### **Location**

The College is located on a 200-acre campus in Upper Montclair, New Jersey, a magnificent suburban community fourteen miles from midtown Manhattan.

As a result of the College's proximity to New York City, the students at Montclair State enjoy an opportunity to enrich their education through participation in the cultural, social and educational life of the metropolis of which we are part.

### **Financial Support for the College**

The College derives its primary income from the State of New Jersey. This basic income is supplemented by grants from government agencies and private foundations, and gifts from friends, alumni, corporations and other private philanthropic sources.

### **Accreditation and Memberships**

The College is fully accredited by the Middle States Association of Colleges and Secondary Schools. In addition, the National Council for the Accreditation of Teacher Education has granted the College full accreditation for the preparation of elementary and secondary school teachers and school service personnel.

The College is a member of the Council of Graduate Schools in the United States, the American Association of State Colleges and Universities, the American Council of Education, the New Jersey Association of Colleges and Universities and the American Association of Colleges for Teacher Education. Women graduates of the College are accepted for membership in the American Association of University Women.





## GENERAL INFORMATION

### About the Graduate Programs

The College granted its first Master of Arts degrees to 13 students in June, 1933. In 1971, Master of Arts degrees were awarded to 548 students, of whom 179 studied in the School of Education (now School of Educational and Community Services), 136 in the School of Social and Behavioral Sciences, 90 in the School of Professional Arts and Sciences, 68 in the School of Mathematics and Science, 43 in the School of Humanities and 32 in the School of Fine and Performing Arts.

#### Division of Graduate Studies

Graduate programs at the College are organized within the Office of the Vice President for Academic Affairs into a Division of Graduate Studies. The administrative officer of the division is the director of graduate studies.

#### Graduate Council

The Graduate Council assists the director of graduate studies with regard to developing and administering general policies for graduate education at the College. The director of graduate studies is chairman of the Graduate Council.

Members of the Council are the vice president for academic affairs, the dean of each of the College's six schools, a faculty member and graduate student from each school of the College, the director of the Evening Division and Summer Session and the head librarian.

### Program Offerings

Each of the six schools at the College offers programs leading to the Master of Arts degree.

#### SCHOOL OF EDUCATIONAL AND COMMUNITY SERVICES

Educational Leadership (Administration and Supervision)\*

Reading

Student Personnel Services\*

Teaching (Master of Arts in Teaching)

#### SCHOOL OF FINE AND PERFORMING ARTS

Fine Arts

Music

Speech and Theater

#### SCHOOL OF HUMANITIES

English and Comparative Literature

French

Spanish

#### SCHOOL OF MATHEMATICS AND SCIENCE

Biology

Chemistry

Geoscience

Mathematics (Pure and Applied Mathematics, Computer Science, Mathematics Education)

\*Sixth-year programs are offered in Educational Leadership and in Student Personnel Services.

**SCHOOL OF PROFESSIONAL ARTS AND SCIENCES**

Business Education  
Distributive Education  
Environmental Education  
Health Education  
Home Economics  
Industrial Education and Technology  
Physical Education

**SCHOOL OF SOCIAL AND BEHAVIORAL SCIENCES**

Communication Sciences and Disorders  
Educational Psychology  
Psychology\*\*  
Social Sciences

\*\*A sixth-year program is offered within the Department of Psychology for the school psychologist.



## **College Facilities and Educational Services**

### **Library**

The Harry A. Sprague Library is an attractive, modern, air-conditioned building located centrally on the campus. This important campus facility is named in honor of Harry A. Sprague, who served as president of Montclair State College from 1927 to 1951. The library includes study tables, individual study desks, group conference rooms, faculty carrels and lounge areas. Smoking lounges are provided on the ground floor where a student typing room is also located.

A knowledgeable staff of librarians is on hand to guide students in the use of the library's substantial and constantly expanding collection of books and periodicals. Liberal lending regulations are designed to facilitate the students' access to this collection. Xerox copying machines are available for student use at nominal cost. Periodicals, books and documents in microtext are accessible through the library's microfilm, microfiche and microcard readers.

The general resources of the library are augmented by a Curriculum Laboratory; a rapidly growing collection of United States and New Jersey government publications and special collections that include the China Institute Library, a New Jersey collection and four important poetry collections for special research.

### **Media Services Center**

The Media Services Center has been an instructional support service of the total College community for over thirty years. The Center's primary function has been to provide instructional materials of non-book nature for use by faculty and students.

The College has always had a strong student activities program and in many instances the program requires the use of communication media and ancillary materials. The Media Services Center has undertaken to provide service to this important academic community endeavor.

The Center provides support services rather than direct instruction. The Center centralizes the purchase, distribution and circulation of College audio-visual equipment. It maintains, services and repairs all audio-visual equipment on campus.

### **Student Parking Facilities**

The college maintains several parking lots for use by students. These areas are designed on any map of the campus. The college assumes no responsibility for cars or their contents while parked on college property.

### **Health Services**

There is a registered nurse on duty in the College Health office. This office is located in the west wing of Russ Hall. Emergency medical care is also available.

Regular office hours are from 8 a.m. until 4 p.m. After 4 p.m. this office is for emergencies only. Between 10 p.m. and 7:45 a.m. call 893-4361 for emergency services.

## **Financial Assistance**

### **Graduate Teaching Assistantships**

There are usually a very limited number of teaching assistantships available in some of the instructional departments to qualified graduate students. Applications should be requested from the Division of Graduate Studies.

### **Opportunities for Part-Time Employment**

Montclair State College, through its Student Personnel Office, offers opportunities for students who desire off-campus part-time work after school, weekends and during vacations. The employment service does not guarantee jobs but there is no scarcity of opportunities.

Additional opportunities are available on campus for students to earn income as laboratory or dormitory assistants, secretarial and clerical assistants, or tutors.

### **National Defense Student Loan Program**

To be eligible for a loan, an applicant must be a citizen or national of the United States, or must have such immigration status and personal plans as to indicate that he is in the United States for other than a temporary purpose. Therefore, due to their inherently temporary nature, persons who are in this country on such visas as an "F" student visa or a visitor's visa, are not eligible.

The applicant must be a full-time college student on the graduate level in an institution of higher education participating in the National Defense Student Loan Program or be accepted for admission as a full-time student in such an institution.

Graduate students may borrow up to \$2,500 per year to a total of \$10,000. The maximum a student may borrow depends upon the government's appropriation and number of applicants. The borrower must sign a note for his loan.

The interest rate on these loans is three percent per year. Interest on the loan begins one year after the student ends his full-time studies. The first payment on the loan is due two years after the end of the student's full-time studies. The National Defense Student Loan Act provides that repayments are to be completed within ten years.

### **New Jersey State Student Loan Program**

Loans are made by any participating banking or savings and loan institution in the state. Loans are guaranteed by the New Jersey Higher Education Assistance Authority.

A list of banks participating in this program may be obtained from the New Jersey Higher Education Assistance Authority or the College's financial aid advisor.

Maximum loan amounts are: Each graduate year—\$1,500.

Total loans including graduate may not exceed \$7,500.



### **Woodrow Wilson National Fellowship Foundation\***

The foundation grants fellowships to first year graduate students interested in college-teaching careers in the liberal arts fields. It designates approximately 1,000 candidates for other graduate school fellowship awards. Candidates, usually college seniors, who are citizens or permanent residents of the United States or Canada, must be nominated by faculty members by October 29 of the year preceding the year of the award.\* The criteria for selection are quality of intellect, preparation for graduate study, a reading knowledge of at least one foreign language, character and personality. Approximately 150 Fellows receive a living stipend of \$2,000 plus allowances for children and tuition fees.

The foundation also awards 200 Dissertation Year Fellowships annually to graduate students in the humanities and social sciences who expect to complete their dissertations in their third and fourth year of graduate study. Dissertation awards are for a period not to exceed 15 months. Martin Luther King, Jr. Fellowships are for black veterans to pursue graduate and professional training for public service careers. For further details, address the Woodrow Wilson National Fellowship Foundation, Box 642, Princeton, New Jersey 08540.

### **Foreign Area Fellowship Program**

The American Council of Learned Societies and the Social Science Research Council, with support from the Ford Foundation, offer a limited number of fellowships for research and graduate training in the social sciences, humanities and the physical and natural sciences relating to Africa, the Near East, South Asia, Southeast Asia and East Asia, Latin America and the Caribbean, the Soviet Union and Eastern Europe and Western Europe. Inquiries should be sent to 110 East 59th Street, New York, New York 10022.

### **John Hay Whitney Foundation**

Approximately 30 Opportunity Fellowships are offered for graduate study, primarily in the United States but they may be used abroad. Stipends normally range from \$1,000 to \$3,000 for one year. They are open to U.S. citizens of superior promise with racial or cultural backgrounds or regions of original residence: Blacks, Spanish-Americans, American Indians, residents of Guam, Puerto Rico, Samoa, the Virgin Islands, the Appalachian and Ozark Mountain areas and the Trust Territories. Applications by November 30. Located at 111 West 50th Street, New York, New York 10020.

### **Alliance Francaise de New York**

The foundation awards all scholarships for fields of study at the graduate level as a means of fostering better understanding by enabling students of France to study in the United States and students of the United States to study in France. Located at 527 Madison Avenue, New York, New York 10022.

\*Temporarily suspended.

## TUITION AND FEES\*

### Tuition Charge

Graduate tuition, for those students who hold at least a bachelor's degree,  
per semester hour of credit .....\$40.00

### Fees (Non-refundable)

*Registration fee*, paid each time a student registers .....\$ 2.00  
*Student Center Building fee*, paid each time a student registers, \$2 per  
semester hour to a maximum of .....\$22.00  
*Late registration fee*, for all students who register after the regular registra-  
tion period .....\$ 5.00  
*Change of Class Schedule fee*, for students who, after their initial registra-  
tion each semester, make a change or changes in their original class sche-  
dule other than withdrawal from a course .....\$ 5.00

### Application Fee

Each application for admission must be accompanied by a non-refund-  
able application fee of .....\$10.00

### Transcript Fee

For each copy of a student's transcript .....\$ 1.00  
 Inquiries about procedures for requesting transcripts should be directed  
to the Registrar.

### Payment Instructions

All checks should be made payable to: Montclair State College.

### Refunding of Fees

Refunds are made under circumstances detailed below if a student offici-  
ally withdraws from a class by filing a written application with the Division of  
Graduate Studies.\*

The following schedule of refunds has been established by the New Jersey  
Board of Higher Education and is uniform for all New Jersey state colleges:

<i>Period of Withdrawal</i>	<i>Percent Refunded</i>
Before course begins .....	100%
During first third of course .....	60%
Between first third and first half of course .....	30%
During last half of course .....	No Refund

The percentage of refund is based on the total obligation. A reduction in  
a student's course load is equivalent to a withdrawal. The above policy applies  
to such reductions. Tuition and service charges are refunded in full if classes  
are discontinued by the College.

In computing refunds, the date of withdrawal is the date on which the  
written notice of withdrawal is received in the Division of Graduate Studies.

\*Subject to change at any time by action of the New Jersey Board of Higher Education.

## **ADMISSION TO GRADUATE STUDY**

The Division of Graduate Studies at Montclair State College invites applications from highly-qualified graduates of baccalaureate programs in the liberal arts, the sciences, business administration, teacher education and other fields.

Since the number of graduate students who can be accommodated is limited, the College may only admit those applicants who demonstrate the greatest tangible promise of scholarly achievement.

A bachelor's degree from an accredited college or university in the United States or abroad is a basic requirement for admission, but is not the sole factor. Applicants must clearly demonstrate their ability to benefit from Montclair State College's programs.

Admission to a graduate degree program is restricted to applicants whose undergraduate records and scores on the Aptitude Test of the Graduate Record Examination (GRE) indicate a high degree of probable success. To be admitted to a particular degree program, the applicant must be accepted by the department offering that program and approved by the Director of the Graduate Division. Applicants should take the GRE Aptitude Test early enough to have the test scores sent to the Director of Graduate Studies prior to enrollment in a graduate degree program.

A limited number of students will be admitted to graduate courses who, while not directly interested in pursuing any specified degree-oriented program, are interested in taking individual courses in particular fields of study. All such applicants must present evidence of an acceptable baccalaureate degree from an approved college or university before enrolling in any courses.

Admission on a non-matriculated basis does not in any way imply that the student has been accepted as a candidate for the Master of Arts degree.

### **Application for Admission**

An application for admission may be obtained from the Division of Graduate Studies. The completed application must be submitted to the Division with a non-refundable fee of \$10; this fee should be sent by check or money order.

Transcripts of all previous graduate and undergraduate college study must be sent directly to the Division of Graduate Studies by the student's college. The student should make arrangements to have an official notification of his Graduate Record Examination score sent to the Division of Graduate Studies.

Completed applications, including all needed transcripts, test scores and fee payments, must be on file in the Division of Graduate Studies by July 15 for Fall admission, by November 15 for admission the following Spring and by April 15 for admission in the Summer.

### **Acceptance and Conference with Advisor**

After an analysis of the credentials of the applicants, those who meet the college admission requirements will confer with the graduate advisor of the department in which the applicant has chosen to study. The advisor will develop an official program of study with the student when the student is accepted for matriculation.



After the conference with the departmental advisor, the applicant will receive notification about his status from the Division of Graduate Studies. No student is matriculated in a degree program prior to receipt of an official notification from the Graduate Division.

### **Admission of Veterans**

Veterans seeking admission to the Division of Graduate Studies should apply to the Veterans Administration well in advance of the registration dates for a certificate of eligibility and entitlement. These forms may be obtained at the Veterans Administration office at 20 Washington Place, Newark, New Jersey.

The Veterans Administration has established certain limitations, particularly with regard to changes in courses. It therefore becomes particularly important that the veteran clearly state his educational objectives on all appropriate forms.

To assist the veteran, to ensure that his application is in order, and that the veteran has fulfilled the requirements of the GI bill, the veteran should report during registration to the Veterans' Counselor, whose office is in College Hall.

### **Foreign Applicants**

Foreign applicants should obtain the *Application for Admission to an Educational Institution in the United States* from the Division of Graduate Studies, and return the completed form to the Graduate Division office at least one month prior to the normal deadline dates.

As proficiency in spoken and written English is prerequisite to graduate study at Montclair State College, the College requires foreign applicants for whom English is not a native language to take the *Test of English as a Foreign Language*, administered worldwide by the Educational Testing Service of Princeton, New Jersey. Scores from the *Test of English as a Foreign Language* should reach the Division of Graduate Studies no later than the normal deadline dates.

### **Senior-Graduate Students**

Montclair State College undergraduates with academic averages of 2.67 or greater, who are within 16 semester hours of graduation, may take up to six semester hours of graduate work.

In order to be eligible to take graduate courses, a qualified senior must complete the appropriate application, which is available in the Division of Graduate Studies. This application must be approved by the registrar, the chairman of the appropriate graduate department in which the student wishes to study and the Director of Graduate Studies.

Qualified undergraduates taking Senior-Graduate courses must pay appropriate fees and tuition at the regular graduate student rates. Admission of undergraduates to Senior-Graduate courses does not imply future acceptance into the graduate program.



## THE SCHOOLS AT MONTCLAIR STATE COLLEGE

The 36 departments of academic instruction at the College are organized into six schools, each headed by its own dean. Graduate instruction is under the direction of the Director of Graduate Studies.

### School of Educational and Community Services

Ralph Walter, Ed.D., *Acting Dean\**

Ercell I. Watson, Ed.D., *Dean\*\**

The School of Educational and Community Services exists to provide professional educational services to the communities of the nation and particularly those of Northern New Jersey. The specific components of society to which these services are directed are the individuals seeking admission to the teaching profession, preparation for areas of specialization within the profession and growth within the profession; public school systems; non-public schools; community agencies and business and industrial organizations. It is also concerned with the continuing development of the general field of education and those problems of society which are related to it.

The general role of the school is three-fold: (1) to make these services available in a manner which will be most accessible and useful to the recipients, (2) to utilize to the best advantage the training, experience and expertise of the staff in the performance of these services and (3) to act as a coordinating agency in working with other agencies of the College and community in mutual efforts of service. The general means of performing these services will be those of instruction, consultation, supervised laboratory experiences and research.

Current graduate programs in the school are designed to meet one or more of six needs: (1) instruction in Administration and Supervision (Educational Leadership) leading to the Master of Arts degree and New Jersey certification for positions of Supervisor, Principal or School Administrator; (2) instruction in the Student Personnel Services, including School Social Work (Visiting Teacher) leading to the Master of Arts degree and New Jersey certification in guidance and school social work; (3) Master of Arts with a major in education to prepare liberal arts college graduates for teacher certification combined with further graduate study; (4) Master of Arts in Reading; (5) advanced professional instruction for administrators, supervisors, counselors, classroom teachers and other personnel involved in educational pursuits and (6) Master of Arts in Environmental Education.

The admission requirements and the requirements for the Master of Arts degree in each of the areas within the field of Education are listed separately. Students who are not candidates for a degree may elect any courses except those for which they may not have the necessary prerequisites or which are restricted to candidates in the field of specialization. Courses at the sixth year level are available in Educational Leadership (Administration and Supervision) and Student Personnel Services.

Note: The school of Education and the Division of Urban Programs and Community Services have been merged into a single unit. This will undoubtedly result in a revision and expansion of existing programs. Students enrolled in existing programs will have the opportunity of completing programs in which they are matriculated without any changes.

\*Until August 31, 1972.

\*\*As of September 1, 1972.

## **School of Fine and Performing Arts**

**Samuel Pratt, Ph.D., Dean**

The School of Fine and Performing Arts is responsible for instruction, performance and research in the arts. It is presently organized into the departments of Fine Arts, Music and Speech and Theater. The programs serve a variety of student-defined objectives: fundamental education for careers in performance, teaching, management, or scholarship; preparation for community service in the arts; or general education in the arts as a basis for enhancing the aesthetic qualities of personal life.

As the school is still in its formative years, it will concentrate upon established programs. However new emphases are being developed. Looking to the near future, the plans for the School of Fine and Performing Arts include significant growth in the areas of technical theater and design, television and radio, film and photography, arts management, urban cultural development and design, society and the arts and personal life and the arts. There will be increased stress on inter-arts programs and on programs relating the arts to other disciplines.

The proximity of the college to New York is an advantage to graduate students in the visual and performing arts. Independent study arrangements are encouraged as a way of taking advantage of these unique opportunities.

## **School of Humanities**

**Wolfgang B. Fleischmann, Ph.D., Dean**

The School of Humanities offers graduate work toward the Master of Arts degree in English and Comparative Literature, French language and literature and the literature of Spain and of Spanish America.

The School is attractively housed in Partridge Hall, a new classroom and faculty office facility.

All graduate courses and curriculum in the School of Humanities are under continual revision by a committee, chaired by the dean of the school, consisting of one graduate student and one faculty member from each of the three programs.

## **School of Mathematics and Science**

**Irwin H. Gawley, Ed.D., Dean**

The School of Mathematics and Science includes the departments of biology, chemistry, mathematics and physics-geoscience.

Graduate programs in the sciences and mathematics were introduced in the College over thirty-five years ago. The two areas are dynamic and continuously increasing in complexity.

The school is presently located in portions of Finley and Mallory Halls. A new building is under construction to house the departments of chemistry, mathematics and physics. Scheduled for completion in September of 1972, it will provide new laboratories, classrooms, conference rooms, a computer facility, offices and individual laboratory space for students and faculty. The present space occupied by these departments will be used to develop additional facilities for the biology and geoscience areas.

The College is a charter member of the New Jersey Marine Sciences Consortium. Certain of the courses, listed in the departments of biology and physics-geoscience, are given at the facilities of the Consortium.

## **School of Professional Arts and Sciences**

Houston G. Elam, Ph.D., *Dean*

Courses offered by the school provide a wide range of knowledge opportunities which, if selected carefully, result not only in a broadening of professional competence, but also in an improved life style.

Graduate programs in the School of Professional Arts and Sciences are offered to accomplish several objectives:

1. To increase one's knowledge within a specialized professional area improving job mobility and promotional opportunities.
2. To provide an opportunity for candidates to earn an advanced degree and obtain improved professional credentials.
3. To provide the opportunity for promoting professional skills outside one's area of major competence.

Graduate programs within the School are structured to result in the awarding of a Master of Arts degree in (1) Business or Distributive Education, (2) Health Education, (3) Home Economics, (4) Industrial Education and Technology and (5) Physical Education.

These programs are generally offered in two tracts of learning. One tract leads to an advanced degree in specialized education. Such programs are intended primarily for teachers improving knowledge levels. These programs should lead to better educational skills for teachers resulting in higher subject content knowledge for students.

The second tract is intended for direct professional input, intended to permit graduates to enter professions in middle management levels or to improve probabilities of rapid upward movement within one's profession.

## **School of Social and Behavioral Sciences**

Philip S. Cohen, Ph.D., *Dean*

Graduate programs in the School of Social and Behavioral Sciences are designed to accomplish four objectives:

1. To provide the opportunity for students to acquire advanced knowledge in one of the major areas of the social or behavioral sciences.
2. To acquaint the student with the inter-relatedness of the various fields within the social and behavioral sciences as well as their relationship to other disciplines.
3. To familiarize students with the particular methodology and problems of his or her field.
4. To provide students with the background to do creative and independent work both during and after their graduate careers.

Specifically, graduate programs are available in (1) History and the Social Sciences, (2) Psychology and (3) Communication Sciences and Disorders.

History and the social sciences comprise a number of disciplines, the boundaries of which are constantly changing and expanding. At the same time, research within the disciplines is becoming more specialized. The necessity for constant study, therefore, presses upon everyone involved in the social sciences whether he is teaching or working in government, industry or the helping professions.

The Departments of History and the Social Sciences provide programs of an advanced character which reflect sound developments in scholarship in various fields. They also offer advanced courses for teachers who wish to improve their preparedness for specialized secondary school subjects. Finally, they aim to provide for the teacher an opportunity for keeping informed about changing techniques and problems related to teaching the social studies. Selections from advanced courses lead to the Master's degree in history and the social sciences, with concentration in a particular field.



The Psychology Department offers programs of a distinctly professional nature as well as those which are preparatory for more advanced degrees.

The graduate program in speech, language and hearing rehabilitation leads to increased skills and qualifications as a therapist in public schools or in special institutions, such as hospitals, and to completion of the requirements for certification in the State of New Jersey and in the American Speech and Hearing Association.





## **ACADEMIC INFORMATION**

### **Academic Policies**

#### **Course Load**

Full-time students in residence must register for from 12 to 16 credit hours each semester. Part-time graduate students who are employed on a full-time basis may not register for more than nine semester hours of credit in any semester, including the Summer Session.

The Division of Graduate Studies recommends that the part-time student should not take more than six semester hours of course work in any one semester.

#### **Course Numbers**

Courses numbered from 400 through 499 are senior/graduate courses. These courses may be taken for graduate credit only with permission of the graduate faculty advisor in the student's major department and only to the extent approved by regulations of the Division of Graduate Studies. At this time, no more than 25 percent of courses offered for the Master of Arts degree may be courses numbered from 400 through 499.

Courses numbered 500 and above are open only to graduate students.

#### **Restrictions for Graduate Credit**

No credit is granted toward the Master of Arts degree for certain 400-level courses which are required for initial certification.

Courses taken more than ten years prior to the date of the student's matriculation will not be accepted for credit toward the Master of Arts degree.

No more than six semester hours of credit may be allowed for courses completed prior to matriculation for the Master of Arts degree, except in specially-designated programs. This six-credit limitation includes all transfer credits as well as pre-matriculation credits completed at Montclair State College.

Graduate credit is not granted retroactively for courses undertaken in excess of undergraduate degree requirements.

No graduate credit is allowed for courses taken at other colleges while the student is enrolled at Montclair State College unless the student obtains prior approval from the Director of Graduate Studies to undertake such courses at other institutions.

Credit is not allowed for courses taken on an audit basis.

It is the obligation of each student to ensure that each course undertaken for graduate credit does not duplicate a course previously taken by that student. Courses may not be taken more than once for credit regardless of any change in the course number or title. Students are particularly cautioned to be careful with regard to courses that have been updated, where course numbers or titles may have changed; these courses may not be counted more than once.

### Transfer Credit

A graduate of an accredited college or university may transfer a maximum of six semester hours of graduate credit toward the Master of Arts degree at Montclair State College, provided the student obtains approval from his departmental graduate advisor and from the Director of Graduate Studies. A form for this purpose is available in the Division of Graduate Studies. This form should be completed well in advance of the date the transfer credit is needed.

Courses completed ten or more years prior to matriculation may not be transferred for graduate credit. Grades below B are not accepted for transfer credit.

### Time Limit

Work for the Master of Arts degree must be completed within six years from the date of the student's matriculation, unless the Director of Graduate Studies approves an extension. Applications for extension will be reviewed and evaluated by the Director of Graduate Studies on the basis of the student's progress toward the degree and in accordance with established graduate policy at the time of the application.

### Grades and Standards

There are eight grades used at Montclair State College:

A Excellent	F Failure
B Good	INC Incomplete
C Fair	WD Withdrew
D Poor	NC No Credit

No graduate credit is allowed for courses completed with grades below "C". In order to qualify for the Master of Arts degree, a student must present an average grade of at least "B" in all courses.

The mark "F" signifies: (1) academic failure; (2) failure of the student to submit written notice of withdrawal, or (3) withdrawal after the midpoint in the semester. The mark "WD" is given to those who submit in writing their intention of withdrawing from a course before the midpoint of a semester.

The mark "INC" indicates that a student, due to illness, was unable to complete the work by the end of a semester. Course work for "INC" grades received in the Fall semester must be completed by April 15; course work for Spring or Summer "INC" grades must be completed by November 15. Failure of the student to complete the assigned course work by the given date will result in a final grade of "F". Deadlines are adjusted for courses which meet for more or less than a full semester.

An official record of credits and grades earned will be mailed to the student following the close of each semester.

A student who does not maintain an acceptable standard of scholarship, defined as an average of "B" or greater, will be placed on academic probation. If it thereafter becomes apparent that the student is unlikely to achieve the acceptable grade standard, the student will then lose his or her matriculated status.

The Director of Graduate Studies and the student's graduate faculty advisor may, for good reason, recommend to the Vice President for Academic Affairs that a student's matriculated status be revoked. Such recommendation will be made for students found deficient in personality, integrity, temperament, emotional adjustment or physical stamina, or after it has been established that there is evidence of serious unprofessional conduct.

### **Registration Procedure**

All graduate students who were registered at Montclair State College during the last semester will receive registration materials by mail. New students, or students not registered in the last semester, must register in person.

Details about registration procedure may be obtained from the Division of Graduate Studies.

### **Changes of Courses**

Students should not change their planned course program without approval of the departmental graduate advisor. Appropriate forms are available in the Division of Graduate Studies.

### **Withdrawal from a Course**

A written notice to the Division of Graduate Studies is required for withdrawal from a course. An acknowledgment will be sent to the student following receipt of the written notice of withdrawal.

Refunds are computed from the date of receipt of the written notice of withdrawal.

Students who do not submit a written notice will receive the grade of "F" in those courses which they cease to attend. Students who withdraw after the midpoint will also receive an automatic "F" grade.

Withdrawal from courses that meet more than or less than a full semester is allowed until the midpoint of the course.

Students are cautioned that notification to the instructor does not constitute an official withdrawal.

### **Cancellation of Courses**

The College reserves the right to cancel any course for which enrollment is insufficient. In that event, students from the cancelled class may register for another course or receive a refund of tuition. This authorization to register for another course does not exempt a student from meeting the stated prerequisites for admission to that alternate class.

### **Change of Major**

A student transferring from one major department to another must complete a *Change of Major Form*, which may be obtained from the Division of Graduate Studies. This form must be signed by the departmental graduate advisors from the student's present department and from the department the student desires to enter, and must also be signed by the Director of Graduate Studies.

Following approval of the application to change a major, a new official program of studies is worked out with the student. Students are cautioned that



all previously completed course work may not necessarily be approved for transfer to the new program. Students who change majors are governed by the six year completion of requirements rule from the date of their first matriculation.

### **Master's Degree Credit**

Each student assumes responsibility for assuring that he completes the proper courses for his program needs. Students should bring to each registration period their official work programs as well as transcripts of graduate work already completed, in order to avoid taking courses which cannot be counted toward the Master of Arts degree in the student's field.

## **Graduation Requirements**

### **Minimum Number of Semester Hours**

A minimum of thirty-two semester hours of graduate credit is required in all departments. Additional hours may be added to compensate for any deficiencies in the applicant's undergraduate record. A minimum of thirty-two semester hours plus student teaching is required in the program with a major in teaching. A minimum of sixty semester hours is required for certification in the School Psychology Program.

### **Thesis**

Four of the total credits can be satisfied by a thesis which meets the approval of the faculty graduate advisor and the Director of Graduate Studies.

A department may accept the Master's Thesis as equivalent to the required seminar, and/or in lieu of all or part of the final comprehensive examination. A student writing a thesis must register for the course, Departmental 600, Master's Thesis, for four semester hours.

The student is expected to complete the thesis within one calendar year. An extension of time may be granted by the Director of Graduate Studies after consultation with the student's advisor. If granted, the student must re-register for Departmental 600 on a no-credit basis and pay a fee for two semester hours. This extension will be for six calendar months. The thesis must be submitted six weeks prior to commencement. *March 15*

### **Comprehensive Examination**

The examination is usually given twice a year, once in October and once in March. It is the student's responsibility to file the "Notification for Comprehensive Examination" form with his or her advisor. The form is available in the Division of Graduate Studies office. This procedure should be completed at least six weeks prior to the examination date. Students who fail the departmental comprehensive examination are permitted to retake this examination twice.

Students should check with their graduate advisor to determine the dates on which the comprehensive examinations will be offered.

### **Application for Final Evaluation**

This application form is obtained in the Division of Graduate Studies office by the candidate anticipating the completion of the degree requirements.



The responsibility for making application rests with the candidate.

This form must be completed and returned by March 15 for students completing requirements by the end of the Summer Session, by July 1 for students completing requirements in the Fall semester, and by November 15 for students completing requirements in the Spring semester.

Students should check with advisors concerning final examination dates and other details involved in graduation procedures.

### **Commencement**

Commencement exercises are held each Spring.

Students who meet the scholastic requirements for their degrees and who have fulfilled all obligations to the College in August or January will be awarded diplomas.

Participation in the commencement exercises is expected unless a request for conferment in absentia is approved by the Director of Graduate Studies prior to the date of commencement.



## PROGRAM DESCRIPTIONS AND DEGREE REQUIREMENTS



## BIOLOGY

Graduate Advisor: Professor Leah Koditschek

The graduate programs in the biology department are designed to enable a student further to develop his or her preparation for a career in biological fields requiring advanced training or for the teaching profession.

### Admission Requirements

Prior to matriculation for the Master of Arts degree in biology, the student should have completed a subject-matter background of at least twenty-four semester hours in biology, two years of college chemistry and sufficient preparation in mathematics and physics.

In cases where there has been a weak undergraduate program in the major field, prerequisite courses, which will not count towards graduate credit, may be assigned. In general, the assignment of elective hours to the major area will compensate for deficiencies in depth of preparation while prerequisite courses will compensate for deficiencies in breadth.

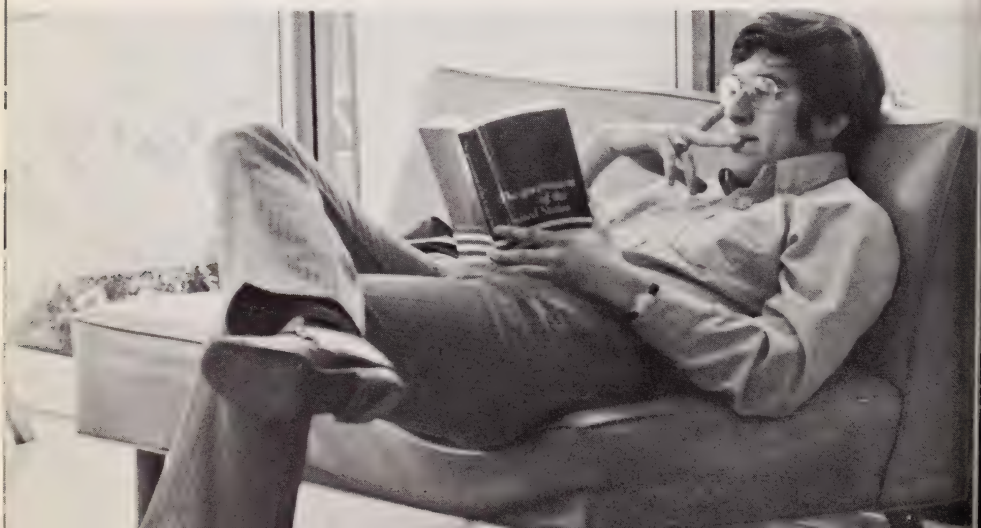
Students in the teaching fields may use six semester hours of free electives for the selection of graduate courses in the area of professional education.

The work program of the student is prepared in cooperation with the biology graduate advisor.

### Requirements for the Master of Arts Degree in Biology

- I. Specialization ..... 22-26 semester hours
  - A. The candidate must complete the research requirement by taking one of the alternatives listed below:
    - 1. Master's Thesis ..... Credit by arrangement
    - 2. 0401-514 Biology and the Problems of Society .. 2 semester hours
  - B. The candidate must complete a minimum of 16 semester hours within the biology department at Montclair State College.
- II. Free Electives ..... 6-10 semester hours
- III. Comprehensive Examination

Minimum: 32 semester hours





## BUSINESS AND DISTRIBUTIVE EDUCATION

*Graduate Advisors:* Professor Louis C. Nanassay — Business Education  
Professor Joseph C. Hecht — Distributive Education

The Department of Business and Distributive Education prepares teachers of business education for administrative, supervisory and specialized work, or master teaching in the field of business education and distributive education. In order to attain these objectives the candidate has an opportunity to supplement his undergraduate program and to explore advanced areas of work in accordance with his individual background, experience, achievement and professional needs.

### Admission Requirements

Graduate work toward the Master of Arts degree in Business or Distributive Education presupposes the completion of an undergraduate major in business or distributive education or its equivalent.

### Requirements for the Master of Arts Degree in Business Education

I. Basic Professional Education	6 semester hours
II. Specialization	20 semester hours
A. Required Courses	semester hours
0838-501 Principles and Problems of Business Education .....	3
0838-503 Introduction to Research in Business Education .....	3
0838-603 Seminar in Business Education .....	3
Required, at least one of the following courses:	
0838-511 Improvement of Instruction in Bookkeeping, Accounting and Business Arithmetic .....	3
0838-512 Improvement of Instruction in General Business Subjects ..	3
0838-513 Improvement of Instruction in Stenography and Secretarial Practice .....	3
0838-514 Improvement of Instruction in Typewriting and Clerical Practice .....	3
B. Electives in Business Education and/or Distributive Education ....	8
III. Free Electives .....	6
	Minimum: 32 semester hours
IV. Comprehensive Examination	

All candidates for the Master of Arts degree in Business Education must pass a comprehensive oral and written examination before they are granted the degree. This examination is given in the Fall and Spring semesters and should be taken during or after the semester the candidate takes 0838-603, Seminar in Business Education. The examinations are general in nature and are intended to test the candidate's maturity of thought with respect to business and distributive education.



## Requirements for the Master of Arts Degree in Distributive Education

I. Basic Professional Education	6 semester hours
II. Specialization	20 semester hours
A. Required Courses	semester hours
0838-501 Principles and Problems of Business Education .....	3
0838-503 Introduction to Research in Business Education .....	3
0838-603 Seminar in Business Education .....	3
Required, at least one of the following courses:	
0840-550 Improvement of Instruction in Retailing Subjects .....	3
0840-552 Improvement of Instruction in Wholesaling and Services ....	3
B. Electives in Distributive Education .....	8
III. Free Electives .....	6
	Minimum: 32 semester hours
IV. Comprehensive Examination	



## CHEMISTRY

*Graduate Advisor:* Professor Joseph F. Becker

The graduate program offered by the chemistry department is designed to provide breadth in pure and applied chemistry at an advanced level. The program also seeks to provide depth in one area in which the student has particular interest.

### Admission Requirements

Prior to matriculation for the Master of Arts degree in chemistry, the student should have completed courses in inorganic, organic and physical chemistry, plus general physics and mathematics through calculus. Twenty-four semester hours of undergraduate chemistry is required but a four-year full major is preferred.

Students in the teaching field may use six semester hours of free electives for the selection of graduate courses in the area of Professional Education.

The student's work program is prepared with the chemistry graduate advisor. Any changes in the developed program are made only with the written approval of the graduate advisor.

### Requirements for the Master of Arts Degree in Chemistry

I. Specialization	22-26 semester hours
A. Required	<i>semester hours</i>
1905-521 Theoretical Inorganic Chemistry .....	3
1905-531 Advanced Theoretical Organic Chemistry .....	3
B. Research (the candidate must complete the research requirement by taking one of the alternates listed below)	
1905-551 Graduate Individual Laboratory Research in Chemistry .....	3-6
0834-505 Research Seminar in Science .....	2
1905-600 Thesis .....	4
C. Electives in Chemistry .....	10-17
II. Free Electives .....	6-10
III. Comprehensive Examination (based upon the research that the student has completed)	

Minimum: 32 semester hours

## **COMMUNICATION SCIENCES AND DISORDERS**

*Graduate Advisor:* Professor Harold M. Scholl

Graduate students have the opportunity to specialize within the broad area of Communication Sciences and disorders in one of the four major tracks: (1) Speech Pathology; (2) Audiology; (3) The Hard of Hearing and Deaf and (4) Learning Disabilities.

All four programs stress interdisciplinary approach to the understanding and remediation of communication disorders, with some guidance in research but emphasize clinical skills. Successful students are those who have a strong need to understand the bases of clinical procedures, who work well with or without supervision, and who, with guidance from the staff, initiate independent projects, taking responsibility for personal growth in intellectual and clinical skills.

Students should indicate their choice of specialization at the time of advertisement for matriculation.

### **Requirements for the Master of Arts Degree in Communication Sciences and Disorders**

#### **Speech Pathology**

Students wishing to matriculate in this area of specialization must have completed the equivalent of 30 semester hours from among the following areas:

- A. Professional Education — A minimum of 9 semester hours including one course from each of the following areas: principles and practices of education, educational psychology and curriculum.
- B. Specialization — A minimum of 18 semester hours from among the following areas: Psychology and Education of the Handicapped, Phonetics, Anatomy and Physiology of the Auditory Mechanism, Speech Correction, Speech Pathology, Clinical Practices in Speech, Measurement of Hearing (Audiology) and Voice and Speech Improvement.

Each student must also be capable of setting an example of acceptable speech. If his voice and speech patterns are considered to be substandard, he will be required to take steps to increase his competency. If the speech problem is severe, he may be refused permission to matriculate.

## Audiology and The Hard of Hearing and The Deaf

A minimum of 18 semester hours from among the following areas:

- Anatomy and Physiology of the Auditory and Vocal Mechanisms
- Speech and Language Development
- Speech Pathology
- Measurement of Hearing
- Auditory Rehabilitation
- Clinical Practice in Audiology
- (125 hours maximum of hours completed elsewhere.)

## Learning Disabilities

### A. Prerequisites

- 1) A standard New Jersey teachers certificate, or equivalent.
- 2) One year of classroom teaching experience or of special instructional experience (speech correction, reading, student personnel).
- 3) Approval by Graduate Committee on Admission to this program.

### B. Core Requirements

I. Required — one of the following:	<i>semester hours</i>
0824-503 Methods and Instruments of Research	
0824-507 Measurement and Evaluation I	
2201-510 Research Methods in Psychology	
2201-578 Psychological Tests and Measurements .....	3
Two of the following:	
0808-500 Nature of Reading .....	3
2201-563 Theories of Learning .....	3
1220-583 Language Disorders of Children .....	3
The following electives may be taken in place of, or in addition to, required courses if equivalencies of above are presented:	
1220-502 Psychology of Oral Communication .....	3
2201-560 Advanced Educational Psychology .....	3
2201-561 Developmental Psychology .....	3
1842-564 Dynamics of Group Process .....	3
2201-568 Psychology of Group Dynamics .....	3
0826-570 Counseling Adults .....	3
0826-580 Principles of Guidance and Counseling .....	3
2201-582 Behavior Modification .....	3
0826-585 Group Guidance and Counseling Activities .....	3
Total: 9 semester hours	

### II. (Taken by all students in the program regardless of specialization)

Required:

- 2201-\*565 Psychology and Education of Socially and Emotionally Handicapped .....
- 2201-\*573 Physiology Psychology .....
- 1220- 620 Orientation and Observation in Special Education .....

The following electives may be taken in place of, or in addition to, required courses if equivalencies of above are presented:

\*Required for Certification in Learning Disabilities



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1301- 427 The Inner City Family .....	3
2201- 453 Social Psychology .....	3
0821- 540 Social Forces in Education .....	3
2201- 553 Urban Psychology .....	3
2201- 564 Psychology and Education of the Physically and Mentally Handicapped .....	3
2208- 565 Sociology of Youth .....	3

Total: 9 semester hours

#### C. Specialization Requirements

##### Speech Pathology

	<i>semester hours</i>
1220-531 Advanced Audiology .....	3
1220-533 Supervision of Speech and Hearing Programs .....	3
1220-535 Advanced Seminar in Communication Disorders .....	6
1220-592 Seminar in Research in Speech Pathology .....	2

#### D. Electives

Completion of 150-275 hours of clinical practicum in speech correction depending upon number of hours completed prior to matriculation.

##### Audiology

Total: 20 semester hours

	<i>semester hours</i>
1220-531 Advanced Audiology .....	3
1220-536 Seminar in Audiology .....	6
1220-593 Seminar in Research in Audiology .....	2

#### Electives

Completion of 150-275 hours of clinical practicum in audiometric testing depending upon number of hours completed prior to matriculation.

##### The Hard of Hearing and the Deaf

Total: 20 semester hours

	<i>semester hours</i>
1220-531 Advanced Audiology .....	3
1220-561 Clinical Practicum (150 hours) in Teaching the Deaf .....	3
1220-570 Teaching Speech to the Hard of Hearing and Deaf .....	2
1220-571 Methods of Teaching the Deaf .....	3
1220-578 Seminar in Research in Hard of Hearing and the Deaf .....	2

##### Learning Disabilities

Total: 20 semester hours

	<i>semester hours</i>
1220-581A Diagnosis and Correction of Children with Learning Disabilities, I .....	3
1220-581B Diagnosis and Correction of Children with Learning Disabilities, II .....	3

1220-581C	Supervised Practicum in Learning Disabilities (90 hours required)	3
1220-582	Remediation of Basic Skills (Methods and Materials)	3
1220-589	Seminar in Research in Learning Disabilities	2
Total: 20 semester hours		

## Electives

Selection from among the following courses will be determined through advisement and will be based on student's needs and interests.

## Communication Sciences

	<i>semester hours</i>
1220-522 Advanced Phonetics .....	2
1220-534 Advanced Anatomy and Physiology of the Vocal and Auditory Mechanism .....	3
1220-572 Speech Science and Instrumentation .....	3

## Communication Disorders

### Speech Pathology

1220-511	Advanced Speech Pathology	3
1220-512	Advanced Diagnosis of Communication Disorders	3
1220-513	Parent Counseling in Communication Disorders	3
1220-514	Communication Disorders of the Aged	3
1220-515	Voice Disorders	3
1220-532	Practicum in Speech Rehabilitation	2
1220-584	Cleft Palate and Oral Deformities	3
1220-585	Stuttering	3
1220-591	Organization and Administration of Communication Disorders Programs	3
1220-594	Independent Study	each 1

### Audiology

1220-537	Hearing Aids and Hearing Aid Selection	3
1220-538	Differential Audiometry	3
1220-540	Practicum in Audiology	2
1220-541	Advanced Practicum in Audiology	2
1220-542	Identification Audiometry and Conservation Programs	3

### Deafness and Hearing Impairment

1220-574	Psychology of Deafness	3
1220-575	Language Development for the Deaf	3
1220-576	Aural Rehabilitation for Adults	3
1220-577	Aural Rehabilitation for Children	3

### Language Development and Disorders

1220-465	Seminar in Black Language	3
1220-500	Speech and Language Acquisition	3
1220-501	Language Development in the Primary Grades	3
1220-502	Psychology of Oral Communication	3
1220-583	Language Disorders of Children	3

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Learning Disabilities

1220-586 Education of the Handicapped .....	3
1220-587 Educational Technology in Teaching Children with Learning Disabilities .....	3
1220-588 Teaching Specialized and Vocational Skills to Children with Learning Disabilities .....	3

**Additional Departmental Requirements**

1. Written comprehensive examination.

2. Majors in speech pathology and audiology must complete a total of 275\* hours of supervised direct clinical experience. Majors in Hard of Hearing and Deaf and Learning Disabilities must complete a minimum of 90 clock hours of supervised experience.

\*Up to 125 hours completed as an undergraduate will be accepted toward the requirement.

Note: Interrelated graduate programs in special education and special pupil services — see descriptions in Psychology.





## TEACHING

Graduate Advisors: Professor William A. Cuff (Coordinator)  
Professor Constance Waller  
Certification Advisor: Simone Picard (Graduate Office)

### Admission Requirements

The program is designed to enable a candidate with a baccalaureate degree and an interest in teaching to earn the Master of Arts degree and a Teaching Certificate simultaneously. Curricula for standard teaching fields and special urban programs are available.

The program is open to students with undergraduate background equivalent to a teaching field in one of the following areas: Fine Arts, Business Education (Bookkeeping and Accounting, General Business Education, Secretarial Studies), Communication Sciences and Disorders, Distributive Education, English, Foreign Languages (French, German, Spanish), Home Economics, Industrial Arts, Mathematics, Music, Physical Education, Reading, Science, Social Sciences, Speech and Theater.

Upon completion of the program the student will be recommended to the New Jersey Department of Education for a Teaching Certificate. Although students interested in teaching elsewhere should seek information from the appropriate state authorities, requirements are generally similar.

### Requirements for the Master of Arts Degree in Teaching

In addition to the general requirements for admission and matriculation for the Master's degree, the applicant must be admitted to the Teacher Education Program.

Criteria which will be considered for admission are:

- (1) Three favorable recommendations, two of which are from college faculty or school administrators.
- (2) Verification of demonstrated competence in speech by the Department of Speech and Theater.
- (3) Cumulative undergraduate grade point average of at least 2.67 and a qualifying score on the Graduate Record Examination.
- (4) Evidence of active interest in community affairs and in teaching.
- (5) Clearance by the Student Personnel Division.
- (6) Approval of the departmental screening committee.

### Advisement

Persons interested in the program may secure information from the listed advisors. Upon acceptance, the student will be assigned a Departmental Advisor who will cooperatively develop a formal program of course work and advise the student continuously. For information about certification in New Jersey, the student may confer with the advisor for Certification Programs.



## 38/Program Descriptions

I. Professional Sequence	9 Semester hours
A. Prerequisites	
2001-101 Human Growth and Development (3 semester hours)—undergraduate credit only	
2001-200 Educational Psychology (3 semester hours) — undergraduate credit only	
0829-410 Field Experiences in Education or equivalent (1-3 semester hours)	
B. Required Courses	9 semester hours
Major Department Teaching Methods .....	3
0829-400 Teacher, School and Society .....	3
0829-521 Seminar: Theory in the Classroom .....	3
II. Education Sequence*	12 semester hours
A. Required Courses	
0829-564 Dynamics of Group Processes .....	3
And one of the following	
0829-503 Methods of Research ★ .....	3
0829-504 Action Research for Teachers .....	3
B. Electives	6
Graduate courses offered by the School of Education, not specifically designed for preparation or certification in some other area of Education, are selected with approval of the Departmental Advisor.	
III. Teaching Field Studies	6-9 semester hours
Graduate courses in the teaching field which are covered by the certificate or serve other needs and interests of the student, are selected with approval of the Departmental Advisor.	
NOTE: The student's undergraduate program may have been such as to require additional course work in his teaching field to meet certification standards.	
IV. Cultural Electives	3-6 semester hours
Courses, selected with approval of the Departmental Advisor, outside the School of Education and the student's teaching field which would tend to extend or broaden his general education.	
V. Field Experience	
One of the following:	
0829-411 Supervised Student Teaching	
0829-416 Professional Teaching Semester **	8 semester hours
0829-417-8 Internship in Teaching	

Total: 40 semester hours

\*If, in the opinion of the Dean of the School of Education, the student has essentially achieved the objectives of part of the program that portion of the requirements may be waived. However, the number of graduate credits may not be reduced below 32, and other requirements of the College still apply.

\*\*Preferred option.

## **EDUCATIONAL LEADERSHIP (ADMINISTRATION AND SUPERVISION)**

*Graduate Advisors:* Professor Earl K. Peckham (Coordinator)  
Professor Bertram Lindemann  
Professor Frank Merlo  
Professor Earl Mosier

The purpose of this program is the preparation of educational leaders who are keenly aware of developments and opportunities presenting themselves as our nation moves forward; leaders who have the ability to cope with and play a professional role in influencing such a process.

The Educational Leadership Faculty works closely with other groups in the School of Educational and Community Services to prepare educational leaders in the broadest sense.

The multi-faceted education function includes public and private school systems, staff development programs of business, other professions and industry. It includes educational services of political movements and foundations. Such a program, as conceived by this department, gives attention to the theory and application needed in the great variety of emerging programs.

It is anticipated that those who complete the graduate programs in this department will be prepared for the following types of positions:

- Major administrative or supervisory personnel in educational systems
- Educational consultants
- Managers of emerging educational programs
- Educational managers and planners in the media fields

The programs in Educational Leadership are essentially two-year graduate programs. Graduate study, including a one semester internship, is considered minimal preparation for professionals in this field today. The programs meet certification requirements of most states including New Jersey, and in most cases go beyond such requirements. In addition, they meet the standards of professional accrediting associations that are increasingly recommending two years of graduate study. The substance of these programs is also in harmony with the guidelines recommended by such outside professional associations.

### **Requirements for the Master of Arts Degree in Educational Leadership**

1. Matriculation into the Master of Arts Program in Administration and Supervision.

A student who has been admitted to graduate study should apply for matriculation before completing the first six required semester hours of course work in Educational Leadership (See Phase I below) or their equivalent. Final action is also based on all-college requirements and any special individual requirements assigned to the student by the Educational Leadership faculty.

Transfer students wishing to have prior course work recognized which has been taken at another accredited institution must take at least one Phase I course at Montclair State College within the last five years before matriculation.

## 40/Program Descriptions

The following are guidelines for approval of Master of Arts matriculation.

### *Master of Arts Degree (33 semester hours):*

- A. A Bachelor of Arts Degree from an accredited institution of higher education.
- B. Qualifications for graduate study as indicated by:
  1. undergraduate scholastic average
  2. scores on the Aptitude section of the Graduate Record Examination
- C. Two years of successful teaching experience or other employment judged as suitable educational experience
- D. Satisfactory completion of Phase I of the Program or its equivalent (See description of Phase I below)
- E. Competency in written English and an acceptable statement of personal goals written by the candidate
- F. Recommendations of two educational leaders, one an instructor in Phase I courses
- G. Personal characteristics for leadership as displayed in a department interview
2. Course Requirements:

#### A. Phase I

9-12 semester hours  
semester hours

- 0821-540 (32) Social Forces and Education ..... 3  
A three semester hour graduate approved course offered in the Social and Behavioral Sciences or Humanities ..... 3  
0827-510 (33) Educational Administration I ..... 3  
0842-564 (35) Dynamics of Group Process or the successful completion of a course in group dynamics taken at the graduate level of any accredited college or by participation in a Human Relations Laboratory of at least one week's duration conducted by an accredited institute or college .... 3

#### B. Phase II

9-12 semester hours  
semester hours

- 0829-530 (31) Principles of Curriculum Development ..... 3  
0827-540 (33) Supervision I (Principles) ..... 3  
0824-503 (34) Methods of Research ..... 3  
0827-515 (33) Supervised Field Experience in Administration and Supervision (may be waived for equivalent experience) .... 3

#### C. Phase III — Program Supporting Electives

9-15 semester hours

Electives are to be selected after consultation with the advisor. They are to be approved by the advisor and listed in the Master of Arts Degree work program. Students wishing to meet certain administrative or supervisory certification requirements may elect several of these courses at this time. Certain courses outside the School of Education may be selected. A Field Experience, 0827-515, for three semester hours must be included if the candidate has no equivalent experience at present in his professional record.

Total: 33 semester hours



*A Planned Program of Thirty Semester Hours of Advanced Graduate Study in  
Administration and Supervision*

Students holding a Master of Arts degree and New Jersey certification for Principal who wish to continue planned graduate study of thirty additional semester hours will be required to meet all matriculation requirements for admission to the Master of Arts program in Administration and Supervision at this college and make a satisfactory grade on a comprehensive examination covering the fields of Administration and Supervision. Such a thirty hour program will need to be approved by a faculty advisor so as to meet the professional goals of the student, including certification for Administrator (Superintendent of Schools) in New Jersey.





## ENVIRONMENTAL EDUCATION

*Graduate Advisor:* Professor Harry H. Hoitsma

### Admission Requirements

In addition to general College admission requirements, a student must hold a New Jersey teacher's certificate, have an interest in curriculum development and have a background in elementary education, science, social science, geology, camping, conservation, outdoor education, or related fields.

Most of the courses offered on campus, supplemented by appropriate transfer credit for courses offered at the New Jersey State School of Conservation and the College of Environmental Sciences at Rutgers, The State University and other institutions.

### Requirements for the Master of Arts Degree in Environmental Education

Program Outline	<i>semester hours</i>
I. Environmental Education (three courses required)	9
A. 0843-550 Environmental Education .....	3
B. 0843-551 Conservation Education .....	3
C. 0843-555 Curriculum for Environmental Education .....	3
II. Practicum (one course required—to be taken after completion of 0843-503.)	
A. 0843-560 Practicum in Environmental Education .....	3
B. 0843-561 Practicum in Camp Leadership .....	3
C. 0843-562 Practicum in Camping Education and Administration ....	3
III. Outdoor Resources, Recreation and Environmental Health (two courses required)	4-6
A. 0836-502 Safety: Man and Environment .....	3
B. 0836-516 Community and Environmental Aspect of Health .....	3
C. 0835-551 Philosophy of Recreation in School and Community ....	3
D. 0401-413 Field Studies in Biological Science .....	2
E. 0401-414 Problems in Field Studies: Biology .....	2
F. 0401-514 Biology and the Problems of Society .....	2
G. 1914-420 Geology of New Jersey .....	3
H. 2206-424 Geography of New Jersey .....	3
IV. Professional Education and Behavioral Sciences	3-6
A. 0814-503 Methods of Research (required) .....	3
B. 0829-420 Instructional Innovations .....	3
C. 0829-530 Principles of Curriculum Development .....	3
D. 0829-531 Curriculum Construction in Elementary Schools .....	3
E. 0829-533 Curriculum Construction in Secondary Schools .....	3
F. 0821-540 Social Forces and Education .....	3
G. 2204-415 Economics of Social Problems .....	3
H. 2286-410 Urban Geography .....	3
I. 2206-421 Population Problems of the World .....	3
J. 2208-565 Sociology of Youth .....	3
K. 2208-566 Metropolitan Community .....	3
L. 2208-573 Sociology of City Sub-Areas .....	3

V. Electives (to be selected from above II,III,IV, or the following courses) 8-14

A. Plants

0401-422 Field Studies of Flowering Plants .....	4
0401-424 Morphology of Flowering Plants .....	4
0401-425 Elementary Plant Physiology .....	4
0401-520 Plant Physiology .....	4

B. Animals

0401-412 Genetics .....	4
0401-413 Field Studies in Science: Biological .....	2
0401-430 Field Ornithology .....	2
0401-530 Animal Behavior .....	4
0401-531 Parasitology .....	4

C. Soil, Minerals, Natural Resources

1914-406 Paleontology .....	4
1014-420 Geology of New Jersey .....	3
2206-424 Geography of New Jersey .....	3

D. Air and Water

0401-460 Biological Oceanography .....	3
0401-461 Limnology .....	3
0401-462 Marine Biology .....	4
0401-463 Marine Invertebrate .....	4
0401-464 Marine Botany .....	4
1014-403 Meteorology .....	4
1914-428 Introduction to Oceanography .....	4
1914-432 Marine Geology .....	4

E. General

1902-406 Astronomy .....	4
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Minimum: 32 semester hours



## **ENGLISH AND COMPARATIVE LITERATURE**

**Graduate Advisor:** Professor James P. Pettegrove

The Department of English and Comparative Literature endeavors to prepare literary critics, productive scholars and accomplished teachers. Through courses in British, American and comparative literature, the department strives to give the student broad perspective. Through seminars for advanced students, it hopes to achieve indepth insights.

### **Admission Requirements**

Candidates for matriculation in the Master of Arts program of this department must show a B-average in their undergraduate work and a score of not less than 500 (Verbal) on their Graduate Record Examination. Most applicants will have majored in English or completed 24 semester hours of academic credit in English at the undergraduate level. Students with strong academic credentials may also apply, even if they do not have the recommended background in English. The graduate advisor will interview each candidate for the program regarding his scholastic record and his intellectual and professional goals.

### **Requirements for the Master of Arts Degree in English and Comparative Literature**

The minimum requirement is 33 semester hours of academic credit. Within the offerings of the department the student may choose areas of study best suited to his individual needs and ambitions. All students are required to complete: the Seminar in Literary Research, a thesis and the comprehensive examination. They must also show a practical reading knowledge of one foreign language.

#### **The Research Seminar**

Students will be required to enroll in 1501-605, Seminar in Literary Research and in 1501-606, Thesis Writing. In these courses the student documents and completes his Master of Arts thesis.

#### **The Foreign Language Requirement**

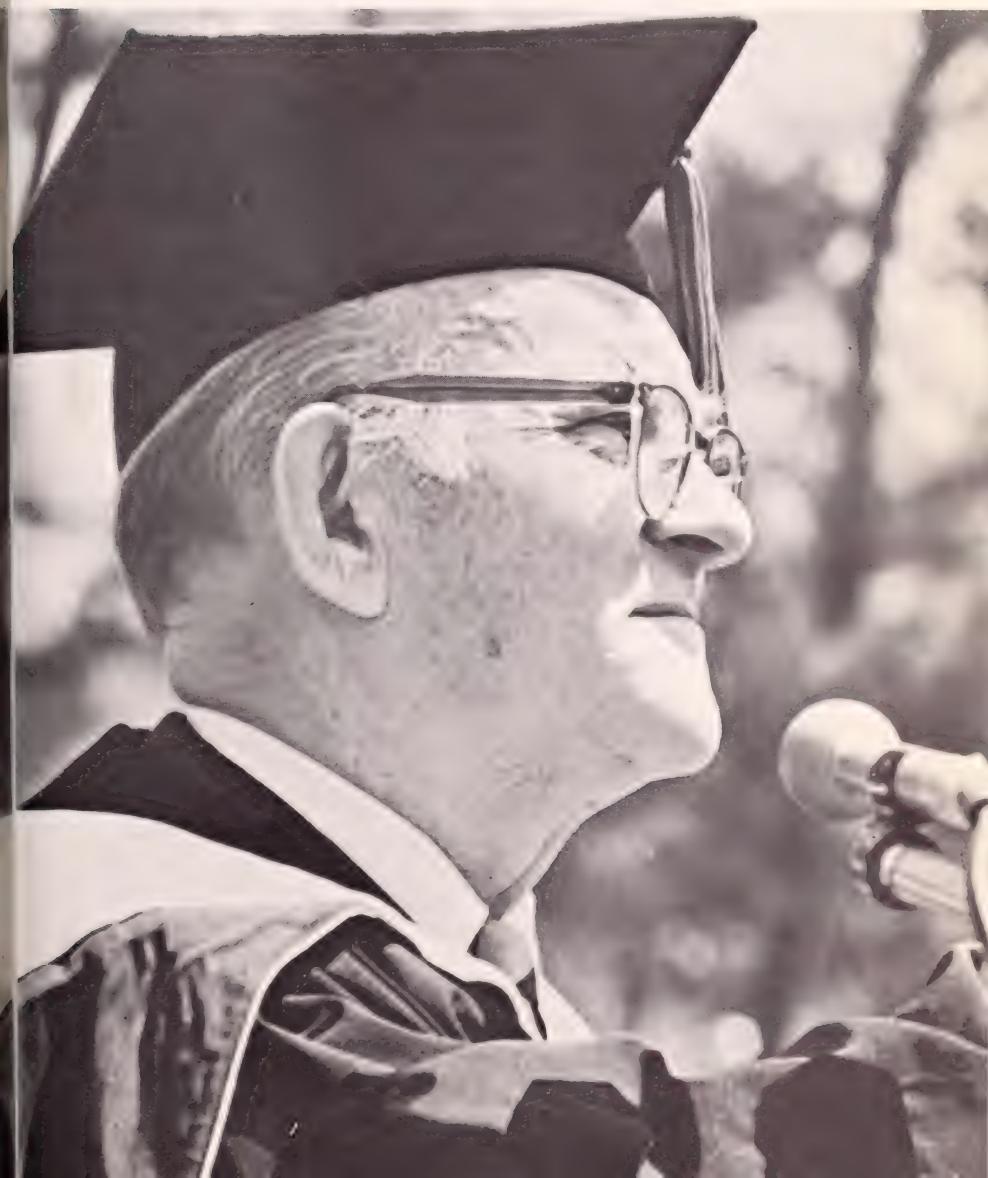
The foreign language requirement may be fulfilled by passing a written test in translation. Students of comparative literature will receive approval of the language of their primary area of study. Otherwise the language will normally be French, German, Italian, Russian, or Spanish. No student may undertake his thesis project until he has fulfilled the language requirement.

#### **The Comprehensive Examination**

All candidates are required to take a three-hour comprehensive examination. This is a test of literary acquaintance, critical judgment and general sensitivity to British and American literature. The examination is also a test of competence in written expression.

Preparation for the comprehensive examination is the student's responsibility. He may, however, ask for guidance from any and all members of the graduate faculty. For best results on the comprehensive examination the graduate faculty recommends that the student structure his course choices for ex-

posure to studies in genres, periods, individual authors and criticism, both historical and contemporary. The comprehensive examination, which is given in October and March of each year, may be taken at any time after the student has completed one half of his course credits. The student should notify the graduate advisor six weeks in advance of his intention to take the examination.





## FINE ARTS

**Graduate Advisor:** Professor Charlotte Lockwood

The graduate program in Fine Arts is designed to provide the committed artist, art teacher, art historian, or advanced layman with the opportunity to acquire further knowledge, skills and in-depth experience. The program allows for concentration in the area of the student's choice.

Fine arts, history and philosophy courses are open to non-art majors. However, studio courses are advanced courses and may be taken only by departmental permission. Although experience in the particular medium of a studio course is not required, a strong art background is necessary for success.

### Admission Requirements

The requirements established for all graduate studies and for matriculation at the college will be followed in respect to this program. Basic Professional Education requirements may be waived by the departmental advisor for non-teaching students.

Matriculation requires completion of a minimum of 36 semester hours in Fine Arts, including both history and studio courses, or equivalent art studies at recognized institutions.

A portfolio of representative art work will be required as evidence of the applicant's ability. Advice concerning this requirement may be obtained from the Department's graduate advisor.

The Department may require one or more specified probationary courses prior to matriculation.

### Requirements for the Master of Arts Degree in Fine Arts

I. Specialization courses	11-20 semester hours
Required	<i>semester hours</i>
1003-590 Modern Philosophies of Art .....	3
1003-591 Selected Problems in Art History .....	3
1001-603 Seminar in Art (with Thesis Project*) .....	2

\*Required of all candidates except students who elect Graduate 1001-600 Master's Thesis I and 1001-601 Master's Thesis II.

Electives:

The following courses are subject to the approval of the graduate advisor:

1. Art Education	
9831-501 Readings in Art Education .....	3
0831-502 Advanced Curriculum Construction .....	3
2. Art History and Philosophy	
1003-590 Modern Philosophies of Art I .....	3
1003-591 Modern Philosophies of Art II .....	3
1003-592 Selected Problems in Art History I .....	3
1003-593 Selected Problems in Art History II .....	3
1003-594 Northern Renaissance Art .....	3

### 3. Fine Arts

1002-511 Advanced Painting I .....	2
1002-512 Advanced Painting II .....	2
1003-513 Advanced Painting III .....	2
1002-514 Advanced Painting IV .....	2
1002-521 Advanced Sculpture I .....	2
1002-522 Advanced Sculpture II .....	2
1002-523 Advanced Sculpture III .....	2
1002-524 Advanced Sculpture IV .....	2
1090-525 Advanced Metalwork & Jewelry I .....	2
1090-526 Advanced Metalwork & Jewelry II .....	2
1009-521 Advanced Ceramics: Pottery & Sculpture I .....	2
1009-522 Advanced Ceramics: Pottery & Sculpture II .....	2
1009-533 Advanced Ceramics: Pottery & Sculpture III .....	2
1009-534 Advanced Ceramics: Pottery & Sculpture IV .....	2
1009-541 Advanced Weaving .....	2
1009-542 Advanced Weaving II .....	2
1009-543 Advanced Decoration of Fabrics I .....	2
1009-544 Advanced Decoration of Fabrics II .....	2
1002-550 Advanced Silk Screen Printing I .....	2
1002-551 Advanced Silk Screen Printing II .....	2
1002-552 Advanced Intaglio Printing I .....	2
1002-553 Advanced Intaglio Printing II .....	2
1002-554 Advanced Woodcut Printing I .....	2
1002-555 Advanced Woodcut Printing II .....	2
1002-556 Advanced Lithography I .....	2
1002-557 Advanced Lithography II .....	2
1002-558 Advanced Lettering I .....	2
1002-559 Advanced Lettering II .....	2
1002-560 Advanced Graphic Design I .....	2
1002-561 Advanced Graphic Design II .....	2
1011-570 Advanced Photography I .....	2
1011-571 Advanced Photography II .....	2
1011-572 Advanced Photography III .....	2
1011-573 Advanced Photography IV .....	2

### 4. Individual Study and Thesis

1001-600 Master's Thesis I .....	2
1001-601 Master's Thesis II .....	2
1001-611 Individual Study I .....	2-4
1001-612 Individual Study II .....	2-4
1001-620 Field Course in Art I .....	2-6
1001-621 Field Course in Art II .....	2-6

### II. Basic Professional Education .....

May be waived for those in non-teaching areas

### III. Free Electives .....

Minimum: 32 semester hours

### IV. Final oral examination in relation to thesis project.

## FRENCH

**Graduate Advisor:** Professor Madeleine Sergent

The graduate program in French is designed to prepare students for both teaching and research in language and literature.

A Master of Arts degree opens opportunities to teach in both community colleges and high schools and provides a solid foundation for students interested in continuing their studies toward a Doctor of Philosophy degree. Graduate training in French is also increasingly useful for positions in government and industries concerned with French-speaking areas of the world.

### Admission Requirements

Admission is open to students who hold a bachelor's degree and have completed at least 24 semester hours of undergraduate French or its equivalent. Students applying for admission are required to present their Graduate Record Examination scores for the Advanced Test in French in addition to the standard college requirements for admission to graduate study.

After acceptance, the candidates will consult the graduate advisor to plan their programs. The course program must be approved by the graduate advisor each semester, before registration.

Individuals holding the bachelor's degree and showing an adequate proficiency in French may enroll in graduate courses, even though they do not wish to enter the Master of Arts program.

### Requirements for the Master of Arts Degree in French

A minimum of 32 credits of graduate work must be completed for the Master of Arts degree. A thesis for the Master's degree is optional, but 4 credits will be awarded for a thesis, on approval. In such a case, the 603 Research Seminar will be waived.

The Master of Arts final examination will consist of two sessions of written examinations covering the history of French language and French literature from the Middle Ages to the present. Questions will be based on a reading list and subject matter covered in the program courses.

	<i>semester hours</i>
I. Basic Professional Education .....	6
II. Specialization Courses: .....	5
a) Required Courses	
1102-505 History of the French Language .....	3
1102-603 Research Seminar .....	2
b) Electives Courses .....	15
These courses will be offered on a rotating schedule so as to enable students preparing for their Master's degree to take at least one course in each century within a year, summer session included.	
III. Free Electives .....	6
Minimum: 32 <i>semester hours</i>	
IV. Comprehensive Examination	

- Minimum: 32 semester hours



## HEALTH EDUCATION

**Graduate Advisor:** Professor Harry H. Hoitsma

The graduate program, leading to a Master of Arts degree, provides advanced study for students preparing for positions in school and community health education programs.

Required and elective course work in the Department of Health Professions, related courses in other departments in the College and a research experience culminating in the completion of a thesis and a comprehensive oral examination comprise the essential aspects of the program.

The variety of educational experiences provided in the program is offered in an effort to prepare school and community health educators for the health challenges of the future. The development of an historical perspective is provided along with an emphasis on specific contemporary health problems. The examination of recent developments in health education combines with the interpretation of important scientific advancement to form the foundational basis of this program.

### Admission Requirements

A major or minor in health education from an accredited college or university constitutes a minimum requirement for admission. Exception to this requirement can be made in the health education program for candidates with degrees in closely related areas. A candidate for the Master of Arts degree in Health Education should consult the appropriate graduate advisor before matriculation. The student with a minor or less preparation in health education must undertake designated prerequisites as part of his program. The student with a major in health education may be requested to undertake additional work where deficiencies are apparent. The prerequisite requirements will be in addition to the minimum 32 semester hour work program.

### Requirements for the Master of Arts Degree in Health Education

I. Basic Professional Education	6-9 semester hours
	<i>semester hours</i>
0824-503 Methods of Research (Required)	3
II. Specialization	12-20
A. Core Courses Required of All Candidates	12
0837-525 History and Foundations of Health	3
0837-526 Curriculum Development in Health Education	3
0837-528 Evaluation in Health	3
0837-603 Research Seminar in Health Education (Required of all candidates except those who enroll for 0826-650, Research Seminar and Thesis Writing)	3
B. Health Education Electives	0-8
The selection of health education electives will be determined through advisement and will be based on the needs and interests of each individual.	
III. Free Electives	4-9 semester hours

#### IV. Comprehensive Examination

A comprehensive oral examination is required of all candidates for the Master of Arts degree in health education. Those students who elect course 0826-650 are not required to take this examination.

Minimum requirements: 32 semester hours



## HOME ECONOMICS

*Graduate Advisor:* Professor Katharine B. Hall

The graduate program in Home Economics leads to the degree of Master of Arts in Home Economics. Individual programs can be structured from the courses offered to provide advanced specialized training needed for college and university teaching, for leadership positions in the various professions in business, for social welfare agencies, for public schools and adult education programs, for research and for extension services.

### Admission Requirements

Requirements for admission to graduate study are prescribed by the Graduate Division. A program is developed for each student depending on his or her individual professional goals. Students lacking adequate preparation may be required to take additional courses at the undergraduate level as pre-requisites to graduate study.

### Requirements for the Master of Arts Degree in Home Economics

<b>I. Specialization</b>	20 semester hours
A. Courses required of all candidates.....	11 semester hours
	<i>semester hours</i>
1301-500 Contemporary Issues in Home Economics .....	2
1301-509 Research Seminar .....	3
1301-540 Interdisciplinary Study of the Family .....	3
0824-503 Methods of Research .....	3
B. Professional Home Economics Emphasis	
Select 9 semester hours from one of the following groups:	
1. Home Economics Education	
1301-501 Seminar in Home Economics Education .....	3
1301-503 Program Development in Family Life Education .....	3
1301-505 Behavior Modification in Home Economics Programs ..	3
1301-506 Supervision of Home Economics .....	3
1301-403 Consumer Education Techniques .....	2
1301-404 Evaluation in Home Economics .....	3
2. Home Management — Consumer Economics	
1301-530 Consumer Behavior .....	3
1301-531 Family Financial Problems .....	3
1301-532 Family and Consumer Economics .....	3
1301-535 Consumer and Family Law .....	3
1301-560 Housing the Family .....	3
1301-570 The Management of Family Resources .....	3
1301-571 Problem Solving in Family Counseling .....	3
1301-572 Management Seminar .....	3
1301-403 Consumer Education Techniques .....	2
3. Family Relations — Child Development	
1301-514 The Child in the Family .....	3
1301-542 Dynamics of Family Interaction .....	3
1301-544 Intercultural Study of the Family .....	3
1301-445 The Inner City Family .....	3

## II. Electives

### A. Courses in Home Economics

3-9 semester hours

Each 500 level course has as its prerequisite a course satisfactorily completed within the last 5 years in the same area of study on the graduate or undergraduate level.

*semester hours*

1301-501 Seminar in Home Economics Education .....	3
1301-503 Program Development in Family Life Education .....	3
1301-505 Behavior Modification in Home Economics Program .....	3
1301-514 Child in the Family .....	3
1301-520 Clothing and Human Behavior .....	3
1301-530 Consumer Behavior .....	3
1301-531 Family Financial Problems .....	3
1301-532 Family and Consumer Economics .....	3
1301-535 Consumer and Family Law .....	3
1301-542 Dynamics of Family Interaction .....	3
1301-544 Intercultural Study of the Family .....	3
1301-560 Housing the Family .....	3
1301-570 The Management of Family Resources .....	3
1301-571 Problem Solving in Family Counseling .....	3
1301-572 Management Seminar .....	3
1301-580 New Findings in Nutrition .....	3
1301-403 Consumer Education Techniques .....	2
1301-404 Evaluation in Home Economics .....	3
1301-405 Home Economics in the Middle School .....	3
1301-408 Workshop in Home Economics .....	2
1301-445 The Inner City Family .....	3

### B. Courses outside Home Economics

3-9 semester hours

Minimum: 32 semester hours

III. Comprehensive Examination, both oral and written, to be taken after completing 24 semester hours of graduate work.

IV. Candidates who choose to write a thesis will register for Graduate 600 for four semester hours credits. These credits will be included in Area I, Item B.



## INDUSTRIAL EDUCATION AND TECHNOLOGY

*Graduate Advisor:* Professor Arthur W. Earl

Graduate study in the Department of Industrial Education and Technology is designed to improve the professional training of industrial education teachers in regard to becoming more proficient in teaching through study of recent trends and new developments in the fields, improving the organization of the industrial arts laboratory and providing a basis for work in administration and supervision. Advanced work in industrial education and related fields which broaden professional experiences and accent industrial concepts is emphasized.

Graduate programs of students matriculated in the Department of Industrial Education and Technology are tailored to the students needs with consultation of the graduate advisor.

Graduate students matriculated in the Master of Arts degree program who desire to take the Cooperative Industrial Education courses 28-507, 28-508 and 28-509 and 34-582, will arrange the program with the graduate advisor.

Graduate students matriculated in the Master of Arts Degree program who plan to be Supervisors of Industrial Arts will arrange the program with the graduate advisor.

### Admission Requirements

Individuals who have an undergraduate major in this area, but do not wish to work toward a degree, may enroll in graduate courses in the Department. Graduate study toward the Master of Arts degree in Industrial Education and Technology presupposes the completion of an undergraduate major in Industrial Education and Technology.

### Requirements for the Master of Arts Degree in Industrial Education

- I. Specialization ..... 18-20 semester hours  
 A. Required Courses

	<i>semester hours</i>
Professional .....	9
0996-0502 (28-501)	
Curriculum Content & Course Organization .....	3
0996-0509 (28-502)	
Industrial Education Facilities Planning .....	3
0996-0607 (28-603)	
Research Seminar in Industrial Education .....	3
Professional Electives .....	6-9
0996-0501 (28-503)	
Historical & Contemporary Industrial Education Literature .....	3
0996-0505 (28-504)	
Supervision of Industrial Education .....	3
0996-0606 (28-604) Independent Study in Industrial	
Education I, II or III .....	1-3

B. Elective Courses

0-6 semester hours

Elective courses are intended to support the graduate student's tailored program by adding new technical experiences that will support and improve the Master of Arts degree study in Industrial Education and Technology. Elective courses are to be planned as a part of the total Master of Arts degree program with the consent of the graduate advisor.

semester hours

II. Basic Professional Education ..... 6-8

III. Free Electives ..... 6-8

Minimum: 32 semester hours

V. Comprehensive Examination

A comprehensive written-oral examination, scheduled during the Spring semester, is required of candidates for the Master of Arts degree.

Students who elect Graduate 600 Master's Thesis, in which the student earns four (4) semester hours of credit, are exempt from the comprehensive examination.



## MATHEMATICS

*Graduate Advisor:* Professor William G. Koellner

To meet the needs of graduate students interested in an extensive study of mathematical theory or its applications in particular areas, the department offers a Master of Arts degree in pure and applied mathematics. This program enables a student to concentrate in pure mathematics, applied mathematics, statistics, or computer science. To meet the needs of the teacher of mathematics, the department offers a special combination of mathematics and mathematics education courses.

For students whose mathematical education needs to be updated, the department offers a series of courses and workshops. Courses numbered from 400 to 419 and from 500 to 519 are for this purpose. Such courses may not be credited toward the Master of Arts degree without special permission from the graduate advisor.

### Admission Requirements

A candidate for the Master of Arts degree in mathematics should consult the graduate advisor of the mathematics department before matriculation since the choice of graduate courses should be adjusted to the preparation acquired in undergraduate work. The student's work program, for a minimum of thirty-two semester hours of work, is prepared in consultation with the graduate advisor. Any changes in the work program are made only with the written approval of that advisor.

The candidate for the Master of Arts degree must present an undergraduate major of at least 30 semester hours in mathematics. Courses in engineering and science that have a substantial mathematical content may be submitted toward this requirement. Candidates whose undergraduate preparation is deficient in either depth or breadth may be required to complete certain prerequisites which will not carry graduate credit.

### Requirements for the Master of Arts Degree in Mathematics (Pure or Applied)

	<i>semester hours</i>
I. Two one-year courses selected as follows: .....	12
Analysis: Math 521-2 or Math 525-6	
Algebra: Math 531-2 or Math 535-6	
II. Mathematics Electives: .....	14
Courses selected from: Math 520-569 or	
Math 581-585 or	
Math 420-465	
with at least 12 semester hours at the 500 level.	
III. Free Electives .....	6
IV. Comprehensive Examination in Pure or Applied Mathematics	
Minimum: 32 semester hours	

## Requirements for the Master of Arts Degree in Mathematics (Statistics Concentration)

- |  |                       |
|--|-----------------------|
| I. Statistics Requirement: .....       | <i>semester hours</i> |
| Course selected from: Math 540-549 or  | 15                    |
| Math 443, 444, 445                     |                       |
| II. Mathematics Electives .....        | 11                    |
| Courses selected from: Math 520-569 or |                       |
| Math 581-585 or                        |                       |
| Math 420-465                           |                       |
- with at least 6 semester hours at the 500 level.  
Students must have credit for Math 425-426 and Math 461,  
or equivalent.
- |   |   |
|---|---|
| III. Free Electives .....                   | 6 |
| IV. Comprehensive Examination in Statistics |   |

Minimum: 32 semester hours

## Requirements for the Master of Arts Degree in Mathematics (Computer Science Concentration)

- |  |                       |
|--|-----------------------|
|  | <i>semester hours</i> |
| I. Computer Science Requirements .....   | 12                    |
| Courses selected from Math 461, or Math 560, or Math 581-585                     |                       |
| II. Mathematics Electives .....  | 14                    |
| Courses selected from Math 520-569, Math 581-585 or from Math 420-465            |                       |
| with at least 9 semester hours at the 500 level. The student must have credit in |                       |
| Math 425-426, Math 431 or Math 436 and Math 443 or Math 444, or equivalent.      |                       |
| III. Free Electives .....  | 6                     |
| IV. Comprehensive Examination in Computer Science.                               |                       |

Minimum: 32 semester hours

## Requirements for the Master of Arts Degree in Mathematics (Mathematics Education Concentration)

- |  |                       |
|--|-----------------------|
|  | <i>semester hours</i> |
| Pure and Applied Mathematics .....                                 | 14                    |
| (At least 9 semester hours from courses numbered 520-569, 581-585) |                       |
| Courses must be selected from at least 3 of the 5 areas:           |                       |
| Algebra:                             Math 431, 531-2, 535-6        |                       |
| Analysis:                          Math 420, 425-6, 521-2, 525-6   |                       |
| Probability & Statistics: Math 443, 444, 540-549                   |                       |
| Geometry:                         Math 450, 551, 554, 555          |                       |
| Computers:                        Math 461, 560, 581, 582          |                       |
| II. Mathematics Education .....                                    | 6                     |



58/Program Descriptions

Two courses selected from: Math 570,571,572,573,574,575

III. Basic Professional Education .....	6
IV. Free Electives .....	6
V. Comprehensive Examination in Mathematics and Mathematics Education	
Minimum: 32 semester hours	



## MUSIC

*Graduate Advisor:* Professor Jack Sacher

Graduate study in music offers three concentrations pointing to the degree of Master of Arts. These include Applied Music, Theory-Composition and Music Education.

Each of these areas is designed to provide the degree of breadth and depth appropriate to its discipline. Those electing to concentrate on Applied Music will stress performance; students of Theory-Composition will stress the examination of the structure of music and the creative process; those emphasizing Music Education will pursue a variety of skills and seek the breadth of understanding necessary for the music teacher in the American school.

Each concentration provides individual election of courses sufficient to achieve additional emphasis should the student desire it. Such emphasis might include Music History and Literature, for example, or a study of Music and the Fine Arts. Details may be arranged with the graduate advisor.

Theory, Applied Music, and a semester of participation in a musical organization are required in all three concentrations.

### Admissions Requirements

In addition to the general college graduate admission requirements stated elsewhere in this *Bulletin*, all students must present an undergraduate major in music. This is understood to include at least forty semester hours of music courses.

Each student must be able to demonstrate competency in a performing medium acceptable to the Department of Music.

Admission to any course in applied music is by permission only, and must be arranged with the chairman of the Department of Music and with the graduate advisor in the semester prior to the one in which applied music is to be studied.

Applicants to the concentration in Applied Music must audition prior to the semester in which he seeks full admission to the program, such audition to be arranged with the graduate advisor. Auditions will not be scheduled unless all appropriate transcripts have been received by the college. All applications to this program must present an undergraduate major in a specific medium or the equivalent of professional study and/or experience, such equivalency to be accepted at the discretion of the graduate advisor.

Applicants to the concentration in Theory-Composition must submit original compositions (totalling about ten to fifteen minutes of performance) in the semester prior to that in which he or she desires full matriculation.

### Requirements for the Master of Arts Degree in Music

#### (Concentration in Applied Music)

#### A. Required Courses

- |  |                       |
|--|-----------------------|
| 1. Either of the following sequences in applied music: | <i>semester hours</i> |
| 1004-504, 505 or 1004-506,507,508 .....                | 12                    |
| 2. Theory sequence, 1016-511, 016-512 .....            | 6                     |

## 60/Program Descriptions

3. Electives in music history or literature ..... 8
4. Electives in general education, to be selected with the advice of the Graduate Advisor for Music from courses in Art, Language, Literature, History, Philosophy, Anthropology, or Sociology ..... 4
5. Music organizations ..... 2
- B. Special regulations
  1. Each degree candidate in Applied Music must prepare two full recitals. One of these recitals must be performed publicly; the other may be public or before a faculty jury. Each recital is to include at least fifty-five minutes of actual music. In any semester in which Applied Music is studied and no recital is given, a jury examination must be offered during the regular examination period.
  2. Teachers of Applied Music must be members of the Montclair State College faculty or approved by the Department of Music.
    - (a) In all cases, teachers will be assigned by the chairman of the Department of Music.
    - (b) Students registering for Applied Music must arrange for a teacher and must arrange for the proper course with the chairman of the Department of Music prior to the end of the semester previous to the one in which Applied Music is to be studied.
  3. Students who enter the graduate program having previously studied with a member of the Montclair faculty will continue with that teacher unless other arrangements are made with the chairman of the Department of Music.
  4. Accompanists must be secured by the student at his or her own expense.

### **Requirements for the Master of Arts Degree in Music (Concentration in Theory-Composition)**

- | A. Required courses   | <i>semester hours</i> |
|---|-----------------------|
| 1. Applied Music, selected with the cooperation of the chairman of the Department of Music from any of the following: 1004-500, 501, 502, 503 .....             | 2                     |
| 2. Private study in composition, 1061-518, 519 .....  | 6                     |
| 3. Seminar in Historical Research 1006-604 .....  | 3                     |
| 4. Theory and composition (must include 1016-511, 512 sequence) ..  | 9                     |
| 5. Electives in general education, to be selected with the advice of the graduate advisor in music from courses in the arts or humanities ....                  | 4                     |
| 6. Music electives .....  | 8                     |
| B. Special regulations  |                       |
| 1. All candidates must compose a work in one of the larger forms for orchestra or vocal ensemble or chamber group and arrange for a public performance thereof. |                       |
| 2. No more than two semesters (4 semester hours) of work with one of the music organizations may be credited in the area of music electives.                    |                       |



**Requirements for the Master of Arts Degree in Music  
(Concentration in Music Education)**

A. Required courses	semester hours
1. Applied music, selected with the cooperation of the chairman of the Department of Music from any of the following: 1004-500, 501, 502, 503 510B .....	2
2. Music Education .....	9
3. Education or Psychology .....	3
4. Theory sequence 1016-511, 512 .....	6
5. Electives in general education .....	4
6. Music electives .....	4
7. Music organizations .....	2
B. Special regulations	
1. All Music Education degree candidates must pass the Comprehensive Examination in music, covering theory, pedagogy and music history/literature, in accordance with the regulations and calendars published by the Division of Graduate Studies.	
2. Recognizing the wide array of skills demanded in the area of music teaching, the Department encourages students to explore new fields of Applied Music. Students may pursue these studies at any level of competency to the extent that teachers are available.	





## PHYSICAL EDUCATION

*Graduate Advisor:* Professor Joan Schleede

The graduate program in physical education is designed to assist the student in gaining depth and understanding in his specialization. It provides a variety of opportunities for the student to assess the function of physical education in modern society through research; the examination and evaluation of recent developments in education and the field of specialization; experimentation with new methods and techniques; the survey of current, as well as historical, documents.

### Admission Requirements

A bachelor's degree with a major or minor in Physical Education from an accredited college or university constitutes the minimum requirement for admission. A candidate for the Master of Arts degree should consult the Graduate Advisor before matriculation. The student may be requested to undertake additional work where deficiencies are apparent. The prerequisite requirements will be in addition to the minimum 32 semester hour program.

### Requirements for the Master of Arts Degree in Physical Education

I. Specialization	<i>semester hours</i>
A. Core Courses	12
0835-603 Research Seminar in Physical Education (Required of all candidates except those students who enroll for Grad. 600—Prerequisite: 0824-503)	3
0835-575 Philosophical and Sociological Foundations of Physical Education	3
0835-576 Curriculum Development in Physical Education, or	3
0835-577 Administration and Supervision in Physical Education	3
0835-579 Advanced Measurement and Evaluation	3
B. Electives	0-8
The selection of electives will be determined through advisement and will be based on the needs and interests of each individual.	
II. Basic Professional Education (0824-503, Methods and Instruments of Research, is required.)	6-9
III. Free Electives	6-8
Minimum: 32 semester hours	
IV. A comprehensive oral examination is required of all candidates for the Master of Arts degree.	

## PSYCHOLOGY

**Graduate Advisors:** Professor Herbert J. Hauer  
Professor Abbie Shapiro

The Department of Psychology offers three distinct and inter-related graduate programs and one inter-disciplinary program.

1. The Master of Arts in Educational Psychology aims to increase the student's knowledge of the application of psychological theory to educational practice.
2. The Master of Arts in Psychology is designed primarily as an intermediate degree. This program prepares for advanced studies in many psychological fields such as, counseling psychology, school psychology, personality, social psychology, industrial psychology, developmental psychology, etc.
3. The School Psychologist Certification Program is designed to meet the need for school psychologists by offering an integrated sequence of courses and supervised school, clinical and community experiences.

### Admission Requirements

Candidates for this program must meet admission requirements of the Graduate Division of the College as stated in the current graduate bulletin. In addition, candidates must meet the following department requirements:

1. 12 undergraduate credits in psychology
2. A laboratory course in experimental psychology and a course in statistics\*
3. Miller Analogies Test and the Advanced Psychology Test of the Graduate Record Examination
4. Approval by departmental committee

### Requirements for the Master of Arts Degree in Educational Psychology

I. Basic Courses—All required—15 semester hours	<i>semester hours</i>
2001-510 Research Methods in Psychology .....	3
2201-560 Advanced Educational Psychology .....	3
2001-561 Developmental Psychology .....	3
2001-578 Psychological Tests and Measurements .....	3
2001-660 Seminar in Educational Psychology .....	3
II. Educational Foundations—Select 6 semester hours .....	3
2001-538 Ethnopsychology (also 91-538) .....	3
2001-553 Urban Psychology .....	3
4905-565 Community Resources and Youth .....	3
2202-534 Anthropology and Education .....	3
2202-535 Ethnology I .....	3

\*If the student lacks experimental psychology or statistics, he may be admitted as an unclassified graduate student by including such requirements in his program, to be taken without credit.

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### III. Specialization—Select 6 semester hours

2001-555 Psychological Aspects of Poverty .....	3
2001-564 Psychology and Education of the Physically and Mentally Handicapped .....	3
2001-565 Psychology and Education of the Socially and Emotionally Handicapped .....	3
2001-566 Psychology and Education of the Gifted .....	3

### IV. Electives—Select 6 semester hours

2001-550 Quantitative and Statistical Methods .....	3
2001-552 General Social Psychology .....	3
2001-562 Dynamics of Human Behavior .....	3
2001-563 Theories of Learning .....	3
2001-573 Physiological Psychology .....	3
2001-580 Personality .....	3
2001-581 Motivation .....	3

### V. Examination

A candidate is required to pass a written comprehensive examination prior to graduation.

VI. A candidate may write a thesis upon approval of his advisor. Four semester hours will be given for the completion of the thesis and the credits will be included in area IV.

## Requirements for the Master of Arts Degree in Psychology

### I. Basic courses—all required—13 semester hours semester hours

2001-520 Advanced General Psychology, I .....	3
2001-521 Advanced General Psychology, II .....	3
2001-550 Quantitative and Statistical Methods .....	3
2001-600 Thesis .....	4

### II. Elective Courses—Select 13 semester hours

2001-551 Experimental Psychology .....	3
2001-552 General Social Psychology .....	3
2001-553 Urban Psychology .....	3
2001-554 Psychology in Business And Industry .....	3
2001-555 Psychological Aspects of Poverty .....	3
2001-561 Developmental Psychology .....	3
2001-563 Theories of Learning .....	3
2001-567 Abnormal Psychology .....	3
2001-568 Psychology of Group Dynamics .....	3
2001-573 Physiological Psychology .....	3
2001-578 Psychological Tests and Measurements .....	3
2001-579 Seminar in Psychological Tests and Measurements .....	3
2001-580 Personality .....	3
2001-581 Motivation .....	3
2001-582 Behavior Modification .....	3
2001-583 Sensation and Perception .....	3
2001-584 Comparative Psychology .....	3
2001-593 Clinical Interviewing .....	3
2001-663 Independent Study .....	3

III. Free Electives .....	6
	Total 32

IV. Examinations—Candidate is required to pass a written comprehensive examination before acceptance of the thesis outline and an oral examination upon completion of the thesis.

V. Department Colloquium (0 semester hours) — Graduate students and faculty are invited to attend this seminar. Each student presents his proposed thesis. The faculty and guests also present current research.

### Requirements for School Psychologist Certification

(N.J. State Certificate as a School Psychologist) 60 semester hours

I. Educational Foundations—Select 12 semester hours	semester hours
0821-521 Contemporary Educational Thought .....	3
2001-538 Ethnopsychology .....	3
2001-553 Urban Psychology .....	3
2001-555 Psychological Aspects of Poverty .....	3
2001-560 Advanced Educational Psychology .....	3
2001-660 Seminar in Educational Psychology .....	3
2202-535 Ethnology I .....	3
2208-565 Sociology of Youth .....	3
II. Education of the Handicapped—Select 6 semester hours	
2001-564 Psychology and Education of the Physically and Mentally Handicapped .....	3
2001-565 Psychology and Education of the Socially and Emotionally Handicapped .....	3
III. Testing and Clinical Techniques—25 semester hours	semester hours
2001-510 Research Methods in Psychology .....	3
*2001-A550 Quantitative and Statistical Methods .....	3
*2001-574 Individual Intelligence Testing .....	3
*2001-575 Projective Techniques I .....	3
*2001-576 Projective Techniques II .....	3
*2001-578 Psychological Tests and Measurements .....	3
2001-579 Seminar in Psychological Tests and Measurements .....	3
2001-590 Diagnostic Case Studies .....	3
*2001-593 Clinical Interviewing .....	3
2001-661 Practicum in School Psychology .....	3
2001-662 School Psychologist Externship .....	3
V. Personality and Behavior Development—Select 12 semester hours	semester hours
2001-561 Developmental Psychology .....	3
2001-563 Theories of Learning .....	3
2001-567 Abnormal Psychology .....	3
2001-573 Physiological Psychology .....	3
2001-580 Personality .....	3
2001-582 Behavior Modification .....	3

VI. Electives—Select courses to balance the program of 60 semester hours—  
with permission of graduate advisor only.

Total: 60 semester hours

All starred courses required for certification. See Director of Program for externship arrangements.



## Interrelated Graduate Program in Special Education and Special Pupil Services: Teacher of the Emotionally Disturbed

Leading to the Master of Arts degree — 38 semester hours (Minimum residency — one year and one summer) and eligibility to apply for New Jersey certification in special education as teacher of the emotionally disturbed.

Candidates for this program must meet the admission requirements of the Division of Graduate Studies. In addition, candidates must meet the following Department requirements:

- (1) Miller Analogies Test.
- (2) Interview with Departmental Committee and approval of Committee.
- (3) Preparation in Psychology and Education courses is desirable. Teaching certification is not required.

### Psychology, Communication Disorders, Reading, and Education Requirements

#### I. Basic Courses

Required — one of the following: *semester hours*

34-A503 Methods and Instruments of Research ..... 3

34-A507 Measurement and Evaluation ..... 3

65-A510 Research Methods in Psychology ..... 3

65-A578 Psychological Tests and Measurements ..... 3

Two of the following:

37-A500 Nature of Reading ..... 3

65-A560 Advanced Educational Psychology ..... 3

97-A583 Language Disorders of Children ..... 3

Total: 9 semester hours

Electives approved by advisor may be taken in place of, or in addition to, required courses if equivalencies of above are presented.

#### II. Core Courses

Required: *semester hours*

65-A561 Developmental Psychology ..... 3

65-A565 Psychology and Education of the Socially and Mentally  
Handicapped Child ..... 3

97-A620 Orientation and Observation in Special Education ..... 3

Total: 9 semester hours

Electives approved by advisor may be taken in place of, or in addition to, required courses if equivalencies of above are presented.

#### III. Specialization

*semester hours*

65-540 0 Remedial Techniques with Emotionally Disturbed Children .. 3

65-541 1 Curriculum Development and Methods of Teaching  
Inner-City Children ..... 3

65-545 Seminar in Emotional Disturbances of Children I ..... 3

65-546 Seminar in Emotional Disturbances of Children II ..... 3

65-553 Urban Psychology ..... 3

65-663	Independent Study .....	2
65-664	Practicum in Teaching Emotionally Disturbed Children I	3
65-665	Practicum in Teaching Emotionally Disturbed Children II	3
Total: 20 semester hours		



## READING

Graduate Advisor: Professor Maria E. Schantz

### Admission Requirements

Provision is made in this program to matriculate certified teachers who have demonstrated interest and ability suitable to reading education. These applicants shall furnish acceptable evidence of talent appropriate for competence in reading instruction. Evidence, for example, may be in the form of letters of recommendation from the school system superintendent or the school building principal.

### Requirements for the Master of Arts Degree in Reading

Satisfactory completion of not fewer than thirty-three semester hours of work as follows: (In exceptional cases appropriate substitutions or changes may be made in these requirements upon approval by the program advisor).

	<i>semester hours</i>
Basic Professional Education .....	6
0824-503 (34-503) Methods of Research (Required) .....	3
Specialization in Reading .....	21

#### A. Required courses for all candidates:

	<i>semester hours</i>
0808-500 (37-500) The Nature of Reading .....	3
0808-511 (35-511) Case Studies of Reading Difficulties, Part I .....	3
0808-513 (37-513) Corrective and Remedial Reading, Part I .....	3
0808-505 (37-505) Research Seminar in Reading .....	2

#### B. Elective Courses in Reading

Students must take at least one of these courses. Selections will be determined through advisement.

0808-503 (37-503) Literature for Adolescents .....	2
0808-504 (37-504) Reading Needs of Adult Learners .....	3
0808-502 (37-502) Administration and Supervision of Secondary School Reading Programs .....	2
0808-501 (37-501) Techniques of Reading Improvement in Secondary Schools .....	2
0808-512 (37-512) Case Studies of Reading Difficulties, Part II .....	2
0808-514 (37-514) Corrective and Remedial Reading: Part II .....	3
0808-510 (37-510) Field Experience in Reading .....	2

C. Electives related to Reading may be taken with the advisor's approval from the following areas:

Curriculum and Instruction	Literature
Group Dynamics	Media
Learning Disabilities	Psychology
Linguistics	
Teaching English as a Second Language	

Other courses offered in the School of Educational and Community Services may be taken.

Free Electives .....6 semester hours

Additional Departmental Requirements

A. Supervised clinical experience within the framework of a required course and/or in addition to course work. Arrangements will be made to provide this experience in the Montclair State College Campus Reading Center.

B. A written comprehensive examination, supplemented, if necessary by an oral examination ..... Minimum: 33 semester hours





## SOCIAL SCIENCES

*Graduate Advisors:* Professor Richard J. Barker, History  
 Professor Byong-Suh Kim, Sociology  
 Professor Edward W. Johnson, Political Science  
 Professor Bertha B. Quintana, Anthropology,  
 Economics and Geography

The Departments of Anthropology, Economics, Geography, History, Political Science and Sociology offer advanced courses leading to the degree of Master of Arts. Degree candidates devote a major portion of their work to, and prepare for a final comprehensive examination in, one of these individual fields. At present, the program is designed mainly for those students who wish to work toward the Master's degree on a part-time basis. Part-time students normally carry six hours of credit per semester (nine hours maximum) during the regular academic year and are encouraged to attend the summer session of the College. For graduate students in residence, twelve to sixteen hours of work each semester is considered a full-time program, with twelve hours recommended for graduate assistants. A limited number of graduate assistantships is available; for information write to the Director of Graduate Studies.

### Admission Requirements

In addition to the general requirements for admission to the graduate program at Montclair, candidates must present an undergraduate record showing a total of at least 30 semester hours in history and/or the social sciences. For candidates with weak undergraduate preparation in the major field, prerequisite courses, not for graduate credit, may be required.

### Requirements for the Master of Arts Degree in Social Sciences

	<i>semester hours</i>
1. Social Science or History Concentration .....	12-15
A. Minimum of 12 semester hours selected from one of the following areas: .....	12
American History, Anthropology, Economics, European History, Geography, Non-Western Culture, Political Science, Sociology	
2. Social Science, Behavioral Science or History Electives .....	9
Electives selected from courses related to the student's area of concentration; candidates concentrating in history select 9 semester hours in social science electives.	
3. Independent Study and Comprehensive Examination .....	2
Every Master's degree candidate is required to register for 4905-603, Reading Seminar in History and the Social Sciences, which entails directed independent study in preparation for a three-hour written comprehensive examination in the area of concentration.	
4. Free Electives .....	6-9
Minimum: 32 semester hours	
4905-603 (90-603) Reading Seminar in History and the Social Sciences	
Required for all master's degree candidates concentrating in Anthropology, Economics, Geography, History, Political Science, or Sociology. Entails	

directed independent study in preparation for a three-hour written comprehensive examination in the area of concentration.

The examination is given two times each year, in March and in October. Students must register for the March examination during the fall semester and for the October examination during the spring semester.

**Requirements for Master of Arts Degree in Social Sciences  
(Concentration in Sociology)**

1. Core Requirement

*semester hours*

2208-560 Sociological Theory .....	3
2208-568 Sociological Research Method I .....	3
2208-571 Seminar: Sociological Inquiry .....	3
Total:	9 semester hours

2. Electives: In addition to the basic core requirements, two additional courses (6 semester hours) should be elected from the following:

*semester hours*

2208-559 Sociology of Deviance .....	3
2208-561 The Construction of Social Theory .....	3
2208-562 Social Change .....	3
2208-563 Self and Society .....	3
2208-564 Social Planning .....	3
2208-565 Sociology of Youth .....	3
2208-566 The Metropolitan Community .....	3
2208-569 Seminar: Sociological Research Method II .....	3
2208-570 Independent Projects .....	3
2208-572 Selected Problems in Sociology .....	3
2208-573 Sociology of the City Sub-Areas .....	3
2208-574 Sociology of Cultural and Ethnic Groups .....	3
2208-575 Sociology of Voluntary Membership Institutions .....	3
2208-576 The Family as an Institution .....	3
2208-577 Sociology of Poverty in the U.S. ....	3
2208-579 Community Resources and Youth .....	3

Minimum: 6 semester hours



## SPANISH

**Graduate Advisors:** Professor Margo Glantz-Schneider  
Professor John E. Hwang

The program of graduate work in Spanish is designed to prepare students for careers in teaching, for research in language and literature, and for other professional positions demanding a knowledge of Spanish: interpreters; translators; consular service and diplomatic service in Spanish-speaking countries; Spanish newspaper and magazine editors and organizers of projects for Spanish-speaking communities; representatives of commercial companies in Spain and Spanish America. The Master of Arts degree opens opportunities to teach in high school and in community colleges.

### **Admission Requirements**

The Master of Arts program in Spanish is open to students who have completed at least 24 semester hours of undergraduate Spanish or its equivalent and hold a bachelor's degree.

Students who hold a bachelor's degree or its equivalent may enroll in graduate courses without obligation to follow a Master's degree program, if they have 24 credit hours in Spanish or its equivalent.

After acceptance, candidates will consult the graduate advisor to plan their programs.

A minimum of 32 semester hours of graduate work must be completed for the Master of Arts in Spanish.

By way of a research component, candidates may choose either to do independent work by electing Spanish 603, the Research Course, or to write a thesis reflecting original research. Spanish 603 carries 2 semester hours. Students interested in writing a thesis should consult the graduate advisor in Spanish at the appropriate time. A thesis carries 4 semester hours credit.

### ***The Master of Arts Comprehensive Examination:***

The comprehensive examination comprises three different fields:

1. History of the Spanish Language
2. Literature of Spain
3. Literature of Spanish America

After completing 32 semester hours the candidate applies for the comprehensive examination, with the understanding that the candidate will devote either one semester or a summer preparing for the comprehensive.

A written examination of 9 hours is offered in the second week of March or in the second week of October. The written examination will be divided into two days, one week apart, as follows: in the first week the candidate will take the examination in history of the language and in Spanish literature (five hours allowed). In the second week the candidate will take the examination in Spanish-American literature.

One week after taking the second written examination the candidate is given an oral examination on the three fields by the whole graduate staff. The Dean of Humanities and the Chairman of the Spanish Department are invited



to be present at the oral examination, which is offered only to those candidates who have passed a satisfactory written examination in the three specified fields.

A reading list containing a bibliography for the three fields in which the candidates are to be examined is given to the students at the time of the preparation of the work program.

### Requirements for the Master of Arts Degree in Spanish

	<i>semester hours</i>
I. Basic professional education .....	6
II. Specialization courses .....	20
III. Free electives .....	6
IV. Comprehensive examination	

#### Course Requirements

##### I. General Education

Students are given the opportunity to elect courses which will extend their knowledge outside of their specialty and even their profession. These graduate general education courses should be designed to show the interrelationships of the major fields of learning.

II. Specialization (consisting of 7 hours of required courses listed below and 13 hours of electives)

##### Required Courses

1105-505 History of the Spanish Language .....	3
1105-603 Research .....	2

##### Foundation Course

1105-506 Advanced Spanish Phonetics .....	2
	<i>7 semester hours</i>

##### Elective Courses

These courses will be elected, with departmental approval, and will be offered on a rotating basis to enable students preparing for their Master's degree to take courses in both areas of Spanish and Spanish-American literature. Students specializing in Spanish may elect some courses from other Foreign Language offerings.

##### Spanish Area

	<i>semester hours</i>
1105-516 Medieval Spanish Literature .....	3
1105-521 The Renaissance Novel and the Picaresque of the Baroque Period .....	3
1105-522 The Theater of the Golden Age .....	3
1105-524 Seminar in Cervantes .....	3
1105-526 Spain in the XIXth Century .....	3
1105-532 The Short Story in Spain .....	3
1105-533 Contemporary Spanish Theater .....	3
1105-534 Spanish Prose of the XXth Century .....	3
1105-535 Contemporary Spanish Poetry .....	3



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### Spanish-American Area

1105-540 Sarmiento and His Times .....	3
1105-541 Spanish-American Novel to 1900 .....	3
1105-542 Spanish-American Novel of the XXth Century .....	3
1105-543 Spanish-American Theater of the XXth Century .....	3
1105-546 Seminar in Modernismo .....	3
1105-548 Spanish-American Essay .....	3
1105-549 The Short Story in Spanish America .....	3
1105-550 Spanish-American Theater to 1910 .....	3
1105-551 Contemporary Spanish-American Poetry .....	3

Minimum: 20 semester hours



## SPECIAL EDUCATION

*Graduate Advisors:* Professor Harold Scholl  
(Communication Sciences and Disorders)  
Professor Walter R. Duryea (Psychology)  
Professor Maria Schantz (Reading)  
Professor Bertram C. Lindemann (Education)

An inter-related program, administered by a coordinating committee has been established to epitomize the professional team interaction concept and to minimize the fragmentation of special programs as they are so often constituted. Specialists who train together and learn together, will hopefully be able to work together in the interests of providing the best possible education for handicapped children. We feel that it is only through developing an understanding of, and appreciation for, what each specialist has to contribute that true cooperation among professional workers will be realized.

The proposed program offers courses in three major groups:

- A. Basic courses
- B. Core courses, and
- C. Specialization

All students entering the program take courses in Areas A and B, with appropriate advisement. Graduate students pursue the curriculum in their selected specialization under Group C. It is possible, with careful selection of electives, to develop skills in more than one area. For example, a major in Speech Pathology can with judicious use of electives meet requirements for Teacher of the Deaf or Learning Disabilities Specialist.

At this time, six specializations are offered and new ones will be added as interest and need develop. The addition of a new specialization does not alter Areas A and B, but only adds to the number of graduate offerings in inter-related programs in special education. See details under Psychology — Inter-related Graduate Program in Special Education and Special Pupil Education and Special Pupil Services: Teacher of the Emotionally Disturbed.



## SPEECH AND THEATER

**Graduate Advisor:** Professor Clyde W. McElroy

Graduate students may pursue a Master of Arts degree to enrich professional activity, prepare for further graduate study or increase their skills as Speech and Theater teachers.

The program has flexibility, permitting the candidate to concentrate in one of these areas: Theater, Speech, or Public Media Arts. Students wishing to enrich their background in all areas may do so instead of concentrating, an approach frequently used by the graduate who is a secondary school teacher. All graduate students will consult with the graduate advisor in selecting those courses that would best prepare them in their areas of concentration.

The facilities include a 1,000 seat major theater and a flexible studio theater, both with remote-control pre-set switchboards; a well equipped scene shop; extensive costume and prop collections, with work rooms; expanding television and film workshop and extensive recording and playback equipment.

### Admission Requirements

Students wishing to matriculate as Speech and Theater majors must have completed the equivalence of at least 18 semester hours from the following areas: Theater, Oral Interpretation, Speech, and/or Mass Communication/Sociology. It is assumed that most of this work will have been in the area selected for graduate concentration. Some students may need to improve their preparatory background with undergraduate courses not offered for graduate credit.

### Requirements for the Master of Arts Degree in Speech and Theater

I. Core Courses	7-9 semester hours
	<i>semester hours</i>
1506 (21)-501 Survey of Research Methods .....	3
1506 (21)-599 Thesis or .....	4
Non-Thesis Option: Selected Courses Recommended By Graduate Committee .....	6
II. Elective Courses within the Areas of Concentration	15 semester hours

#### Theater

1007 (21)-502, 509, 513, 516, 517, 537, 542, 549, 551, 552, 563, 564, 565, 566, 567; — 1506 (21)-572, 598

*Note: A candidate may choose to pursue an emphasis in either Technical Theater or Acting/Directing.*

#### Speech

1506 (21)-524, 525, 553, 559, 565, 570, 572, 580, 585, 598; 0603 (21)-520

#### Public Media Arts — An Interdisciplinary Concentration

A concentration designed to encourage the study of the forces affecting the exchange of information with the public and the techniques utilized in transmission.

0603 (21)-520, 528, 554; 1506 (21)-559, 580, 585. In addition, the graduate



student in this concentration should select six to nine hours of related graduate courses from the total College offerings, with the advisor's permission. Prerequisites as may be required in these courses can be taken as free electives. Typical of the choices are:

- 1510-512 History of the English Language
- 1015-525 An Ethnological Approach to Music
- 2001-552 General Social Psychology
- 2001-562 Dynamics of Human Behavior
- 2001-582 Behavior Modification
- 2202-538 Ethnopsychology
- 2207-502 Modern Political Analysis
- 2208-560 Sociological Theory
- 2208-562 Social Change

- III. Free Electives (Can be utilized as necessary for graduate course prerequisites and/or professional education courses.) ..... 10 semester hours
- Total ..... 32-34 semester hours
- IV. Additional Departmental Requirements:
  - 1. Written Comprehensive Examination
  - 2. Demonstration of Oral Competence: Candidate must demonstrate proficiency in handling speech in a public situation.

## Graduate Course Offerings

### Theater

	<i>semester hours</i>
1007 (21)-500 Independent Study .....	By arrangement
1007 (21)-502 Theater Management .....	3
1007 (21)-519 Theater Criticism .....	3
1007 (21)-513 Stage Lighting Design .....	3
1007 (21)-516 Advanced Directing Workshop .....	3
1007 (21)-517 Advanced Acting Workshop .....	3
1007 (21)-537 Contemporary Experimental Theater .....	3
1007 (21)-542 Modern and Contemporary Theater History .....	3
1007 (21)-549 Non-Western Drama and Theater .....	3
1007 (21)-551 Advanced Problems in Technical Production .....	3
1007 (21)-552 Internship in Dramatic Production .....	3-7
1007 (21)-563 Scenic Design I: The Legitimate Theater .....	3
1007 (21)-564 Scenic Design II: The Performing Arts .....	3
1007 (21)-566 Seminar in Costume Design and Construction .....	3
1007 (21)-567 Seminar in Dramatic Production .....	3
1007 (21)-599 Thesis .....	4
1007 (21)-600 Independent Study .....	By Arrangement

### Speech

1506 (21)-500 Independent Study .....	By arrangement
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1506 (21)-501	Survey of Research Methods	3
1506 (21)-524	Seminar in Persuasion	3
1506 (21)-525	Competitive Forensics	3
1506 (21)-553	Internship in Oral Communication	3-7
1506 (21)-559	Lecture and Lecture Recital	1
1506 (21)-565	Advanced Oral Interpretation	3
1506 (21)-570	Advanced Voice and Speech Improvement	3
1506 (21)-572	Advanced Applied Phonetic Study	3
1506 (21)-580	Revolutionary Rhetoric	3
1506 (21)-585	Seminar in Rhetorical Criticism	3
1506 (21)-598	Special Problems in Speech and Theater	3
1506 (21)-599	Thesis	4
1506 (21)-600	Independent Study	By arrangement

### Public Media Arts

0603 (21)-500	Independent Study	By arrangement
0603 (21)-520	The Broadcast Media and Mass Culture	3
0603 (21)-528	Techniques of Broadcast Communication	3
0603 (21)-554	Internship in Public Media Arts	3-7
0603 (21)-599	Thesis	4
0603 (21)-600	Independent Study	By arrangement
0603-500 (21-500)	Independent Study	
1007-500 (21-500)	Independent Study	
1506-500 (21-500)	Independent Study	

Students will arrange the nature of work with the instructor prior to the second meeting of the course.

Written permission must be obtained from the graduate advisor prior to registration. Independent Study may be elected more than once during the graduate program. Credit by arrangement



## STUDENT PERSONNEL SERVICES

*Graduate Advisors:* Guidance and Counseling  
Professor Earl C. Davis (Coordinator),  
Professor Abraham Gelfond

*Graduate Advisors:* School Social Work  
Professor Robert B. Williams,  
Professor Thomas L. Millard

Personnel services in the society of today are an integral part of the American scene. The many efforts of schools, community agencies, industry, state, and federal governments bear witness to the significance of the personnel specialist. Therefore, the programs in student personnel services provide for the preparation of persons who will implement effectively all personnel activities.

The Master of Arts program provides the basic preparation and opportunity to specialize in the study of one area. This is usually sufficient to meet the New Jersey State Certification requirements for the Student Personnel Services Certificate, or the Certificate for School Social Work (Visiting Teacher).

Study at the sixth year level, 30 semester hours beyond the Master of Arts degree, is provided for the student to study in additional areas of personnel services.

An interdisciplinary graduate program in Organizational Development and Student Personnel Services is available.

### Admission Requirements

All students must meet the admission requirements for graduate study at Montclair State College. In addition, they must be accepted for matriculation by the Student Personnel Services faculty.

A student accepted for the Master of Arts program will be assumed to be accepted for admission to the advanced programs of this department upon completion of the requirements for the Master of Arts Degree.

A weighted score base will be used in computing the student's eligibility for admission, based on the following:

1. Undergraduate and/or graduate total cumulative grade average.
2. Aptitude tests of the Graduate Record Examination.
3. Departmental Interview.

Students anticipating application for state school certificates must have acquired a permanent state teachers certificate and at least one full year of professional experience before completion of the degree requirements.

### Requirements for the Master of Arts Degree in Student Personnel Services

1. Complete a work program of a minimum of 33 semester hours.
2. Complete a research document.
3. Complete a full semester of intern and practicum experience.
4. Maintain a B average in all course work.
5. Pass a Comprehensive Examination.

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### Guidance and Counseling

semester hours

0826-580 (36-580) Principles of Guidance and Counseling	3
0826-582 (36-582) Vocational Guidance and Occupational Information	3
Testing and Evaluation	3
0824-578 (34-578) Testing and Evaluation	3
Psychology	6
Selected from courses in the Psychology Department approved by advisor.	
Sociological Foundations	6
0826-581 (36-581) Community Resources and Youth	3
or	
2208-578 (96-578) Community Agencies and Resources	3
One other course selected from the Department of Sociology, Educational Foundations, Home Economics (Family Living) and approved by advisor.	
Research and Field Work	6
0824-503 (34-503) Methods of Research	3
Field Work and Practicum in an appropriate area upon approval of advisor	3
Specialization Electives	6
<i>To be selected with the advice of the graduate advisor</i>	
See Bulletin for course titles and descriptions	
Guidance and Counseling: 0826-583 (36-583); 0826-585 (36-585); 0826-586 (36-586); 0826-587 (36-587); 0826-589 (36-589)	
Higher Education, Adults and Business: 0826-570 (36-570)	
School Social Work: 0826-560 (36-560); 0826-562 (36-562)	
Learning Disabilities	
School Psychology	
Comprehensive Examination	
Students anticipating graduation in June or August take the comprehensive examination in March of the same year. For January graduation students take the examination in October.	
Basic Requirements for Sixth Year Study:	
Complete a work program of a minimum of 30 semester hours beyond the Master's Degree.	
Prepare a research thesis.	
Pass an examination in the major area of concentration.	



## COURSE DESCRIPTIONS





## ANTHROPOLOGY

### **2202-531 (91-532) Human Variation**

Theories and explanations of human variations and racial types in the modern world, as well as misconceptions concerning race and intelligence and race and culture from the perspective of physical anthropology.

(Formerly Living Races, 2 semester hours)

3 semester hours

### **2202-532 (91-532) Applied Anthropology**

Selection and application of anthropological data dealing with contemporary problems in the modern world. Methodologies of applied anthropology, early problems of application, and the relevance today of anthropological knowledge in the professions.

*Prerequisite:* An introductory course in cultural change.

3 semester hours

### **2202-533 (91-533) Spanish Culture in the United States Today**

Cultural heritage of Spanish-speaking America. Utilizing anthropological concepts and approaches, problems of adjustment and educational implications are explored.

3 semester hours

### **2202-534 (91-534) Anthropology and Education**

Advanced seminar dealing with relationship of culture to learning and anthropology to education. Group work and guided individual research focusing on the use of anthropological data in schools and colleges. *Prerequisite:* 6 semester hours in graduate anthropology courses, or permission of the instructor.

3 semester hours

### **2202-535 (91-535) Ethnology I**

Introduction to "science of peoples, their group cultures and life histories." Ethnographic and ethnological methodology and theory. Intended primarily for graduate students who have had limited or no previous course work in cultural anthropology.

3 semester hours

### **2202-536 (91-536) Ethnology II**

Descriptive, historical and theoretical anthropological works provide basis for studying likenesses and differences among folk and urban cultures, their historic development and interrelationships between differing aspects of culture. (Formerly Cultural Diversity.) *Prerequisite:* 2202-535, its equivalent, or permission of the instructor.

3 semester hours

### **2202-537 (91-537) Cultural Dynamics**

Dynamics of cultural preservation, transmission, and change. Factors and conditions which retard and stimulate culture change considered in transcultural perspective. A unit of study is devoted to the psycho-cultural consequences of rapid change. (Not open to students who have completed 2202-402.)

*Prerequisite:* An introductory course in cultural anthropology.

3 semester hours

### **2202-538 (91-538) Ethnopsychology (Also listed as 2201-538)**

Interdisciplinary team-taught graduate course in psychological anthropology. Focuses on convergencies of theoretical and methodological concepts from anthropology and psychology. Units of study: personality in culture; perception, cognition, and learning in transcultural perspective; cultural continuity, discontinuity and change; cultural

psychiatry; and creativity and culture. Illustrative data from interdisciplinary studies utilized. (Formerly Psychological Anthropology.)

*Prerequisite:* Previous course work in anthropology and psychology or permission of the instructors.

3 semester hours

400 level courses may be credited toward the 12 semester hours concentration in Anthropology only by permission of the graduate advisor. Under special circumstances limited credit may be granted for one or more of the following Senior-Graduate courses in Anthropology. (Descriptions of the following courses will be found in the current undergraduate *Bulletin*)

#### semester hours

2202-402 Dynamics of Culture .....	3
2202-403 Dynamics of Evolution .....	3
2202-404 Urban Anthropology .....	3
2202-405 Psychological Anthropology .....	3
2202-406 Peasant Culture .....	3
2202-407 Independent Study in Anthropological Theory and Method .....	3
2202-408 Old World Prehistory .....	3
2202-409 Anthropology of Religion .....	3
2202-461 Ethnohistory: Interdisciplinary Approaches .....	3

## BIOLOGY

(Course numbers in this department designated with the prefix 0401 were previously listed with the prefix 81)

### 0401-510 The Teaching of Biology in Secondary Schools

Seminar and research course designed for study of methods and practices being used in teaching of secondary school biology. Major topics of discussion are: aims of secondary school biology, course content, functions of textbooks, testing, laboratory exercises and demonstrations, and the collection and use of suitable laboratory materials.

*Prerequisite:* 16 semester hours in biology.

3 semester hours (3 hours lecture)

### 0401-511 Histology and Histological Techniques

Study of the microscopic anatomy of living forms. Structural characteristics of cells and their specialization according to function are considered as well as the organization of this basic unit into the tissues and organs of the intact form. Basic procedures for the preparation of tissue sections and permanent mounts are covered.

*Prerequisite:* 8 semester hours in biology.

4 semester hours (2 hours lecture, 4 hours laboratory)

### 0401-513 Instrumentation and Techniques for Biological Science

Modern analytical and research techniques in biology, including manometry, spectrophotometry, electrophoresis, chromatography, microbial batch growth and assay techniques, immunotechniques and evaluation of experimental design and data.

*Prerequisites:* General chemistry, general physics, organic chemistry, and an adequate background in biology or permission of the staff. Analytical chemistry or biochemistry desirable.

4 semester hours (2 hours lecture, 4 hours laboratory)

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### **0401-514 Biology and the Problems of Society**

Student will prepare an in-depth research report on a current problem and will present it to the department.

*Prerequisite:* Bachelor's degree with a major in biology.

*2 semester hours (2 hours lecture)*

### **0401-520 Plant Physiology**

Investigation of physiology of plants. Plant growth, development and reproduction as well as the new advances in plant physiology. Topics include water relations of plants, mineral nutrition, physiological significance of soils and soil moisture, photosynthesis, respiration, plant biosynthesis and dynamics of growth.

*Prerequisites:* Organic chemistry, general botany, or special permission of the instructor.

*4 semester hours (2 hours lecture, 4 hours laboratory)*

### **0401-530 Animal Behavior**

How animals adjust and adapt to stimuli in their external and internal environment, the neuro-muscular and hormonal mechanisms involved, their ontogeny and phylogeny.

*Prerequisites:* A year course in invertebrate and vertebrate zoology and introductory course in general psychology.

*4 semester hours (2 hours lecture, 4 hours laboratory)*

### **0401-531 Parasitology**

Structure, life cycles, and ecology of medically important protozoans, helminths and arthropods. Biological relationships between parasite vector and human host. Laboratory work: identification with the use of keys, dissection, examination and preparation of appropriate collections and slides.

*Prerequisite:* General zoology.

*4 semester hours (2 hours lecture, 4 hours laboratory)*

### **0401-532 Insect Ecology and Behavior**

Considers relationship of insects to their environment, insect populations, insect behavior. Explores how insects react to our mutual environment, how insect populations fluctuate and how insects behave.

*Prerequisite:* Course in General Entomology.

*3 semester hours (3 hours lecture)*

### **0401-540 Comparative Human Anatomy**

Man's physical, physiological and behavioral aspects in the framework and by the methodological approach of comparative anatomy.

*Prerequisite:* A year course in general zoology and a course in human anatomy and physiology.

*4 semester hours (2 hours lecture, 4 hours laboratory)*

### **0401-541-42 Experimental Embryology and Cellular Differentiation I, II**

Seminar course covering experimental studies that have led to present knowledge of developmental processes. Discussion of studies by classical embryologists with emphasis on relevance of their ideas to modern concepts of development. Special topics of embryology: regulative vs. mosaic development, induction, morphogenetic movements, fields and gradients. Modern techniques and studies will be covered including nuclear transplantation, chromosome differentiation, in vitro studies of cell disaggregation and reaggregation.

*Prerequisite:* Basic Embryology, one course in General Biology or Zoology.

*2 semester hours each (2 hours lecture)*

**0401-550 Topics in Microbiology**

Selected topics in microbiology of special interest from both theoretical and technological point of view, such as, microbial metabolism, microbial cell-free systems, genetics, antibiotic action, bacteriophage, virus and cancer, etc.

*Prerequisites:* General Microbiology, Organic Chemistry, Cell Biology, Intermediary Metabolism and Advanced Bacteriology are desirable.

*4 semester hours (4 hours lecture)*

**0401-551 Intermediary Metabolism I**

Discussion of interrelationships of catabolic and anabolic paths.

*Prerequisites:* One year of Organic Chemistry and Biology; Biochemistry or Cell Physiology or equivalent.

*2 semester hours (2 hours lecture)*

**0401-552 Intermediary Metabolism II**

Ecological cycles, unity and diversity in metabolic paths, metabolic evolution, metabolic control mechanisms and other special topics.

*Prerequisite:* Intermediary Metabolism I or equivalent.

*2 semester hours (2 hours lecture)*

**0401-570 Ecology**

Basic ecological principles and concepts. Habitat approach followed with appropriate field exercises in fresh water, marine and terrestrial ecology. Intra and interspecific relationships with all living members of the ecosystem will be central. Student will choose a problem in either plant or animal ecology and do appropriate research in fields and library.

*Prerequisites:* General Botany, General Zoology, Plant Taxonomy or equivalent, some physical science.

*3 semester hours (2 hours lecture, 2 hours laboratory)*

**0401-572 Ecology of the Estuary**

Important biotic, chemical and physical parameters of New Jersey's estuaries. Evolution and successional trends of estuarine communities. Ecology of individual communities studied by field trips to Delaware Bay shore and to some Atlantic coast bays, marshes and offshore barrier islands. Also offered at the New Jersey Marine Sciences Consortium.

*4 semester hours*

**0401-600 Research in Biology**

Supervised graduate research in a well-defined area of biology. Report presented to the department.

*Prerequisites:* Approval of Department Chairman, graduate advisor, and Faculty sponsor who will supervise research.

*Credit by arrangement (offered upon demand).*

The following Senior Graduate courses in Biology may be elected with the special permission of the graduate advisor. (Descriptions of the following courses will be found in the current undergraduate *Bulletin*.)

*semester hours*

0401-410	Biological Science Demonstrations .....	4
0401-411	Radiation Biology .....	4
0401-412	Genetics .....	4
0401-413	Field Studies in Science: Biological .....	2
0401-414	Problems in Field Studies in Biology .....	2
0401-415-416	Modern Biology I and II .....	4 each



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0401-417	Research Seminar in Biological Literature .....	2
0401-418	Biology Independent Study .....	by arrangement
0401-419	History and Philosophy of the Life Sciences .....	2
0401-420	Economic Botany .....	3
0401-422	Field Studies of Flowering Plants .....	4
0401-424	Morphology of Flowering Plants .....	4
0401-425	Elementary Plant Physiology .....	4
0401-430	Field Ornithology .....	2
0401-431	Entomology .....	3
0401-440	Mammalian Anatomy and Histology .....	4
0401-441	Comparative Anatomy of the Vertebrates .....	4
0401-442	Human Physiology .....	4
0401-443	Comparative Vertebrate Embryology .....	4
0401-444	Cell Physiology .....	4
0401-450	Microbiology .....	4
0401-451	Advanced Bacteriology .....	4
0401-460	Biological Oceanography .....	3
0401-461	Limnology .....	3
0401-462	Marine Biology .....	4
0401-463	Marine Invertebrate Zoology .....	4
0401-464	Marine Botany .....	4

## BUSINESS AND DISTRIBUTIVE EDUCATION

### Business Education

#### 0838-501 (10-501) Principles and Problems of Business Education

Survey of basic principles and practices of business education. Topics include history of business education, objectives, relationship of business education to general education, trends and problems in the field.

3 semester hours

#### 0838-503 (10-503) Introduction to Research in Business Education

Literature and research of business education. Topics covered include: evaluation of current literature in business and distributive education, nature and types of business education research, methods and techniques of business education research and tools used for interpreting statistical data. Student develops outline of research study to be completed in 0838-603, Seminar in Business Education.

*Prerequisite:* Principles and Problems of Business Education (0838-501).

3 semester hours

#### 0838-504 (10-504) Evaluation and Measurement in Business Education

Constructing, administering, interpreting and evaluating all types of testing and evaluation materials in business subjects.

3 semester hours

#### 0838-505 (10-505) Administration and Supervision of Business Education

Study of problems of organizing, directing and supervising business education programs at the secondary school and collegiate levels.

3 semester hours

#### 0838-506 (10-506) Business Education Curriculum

Study of business education curricula for various levels and types of schools. Evaluation of specific programs; development of improved curricula.

3 semester hours

**0838-511 (10-511) Improvement of Instruction in Bookkeeping, Accounting, and Business Arithmetic**

Study of objectives, content, methods, teaching aids and evaluation procedures.

*Prerequisites:* Undergraduate courses in accounting and methods or teaching experience.

3 semester hours

**0838-512 (10-512) Improvement of Instruction in General Business Subjects**

Study of objectives, content, methods, teaching aids and evaluation procedures for courses such as general business, economic geography, business law and consumer education.

*Prerequisites:* Undergraduate courses in general business and methods or teaching experience.

3 semester hours

**0838-513 (10-513) Improvement of Instruction in Stenography and Secretarial Practice**

Refinement of teaching and personal skills, introduction to the latest instructional equipment and method through demonstration, participation and reading.

*Prerequisites:* Undergraduate courses in stenography and methods or teaching experience.

3 semester hours

**0838-514 (10-514) Improvement of Instruction in Typewriting and Clerical Practice**

Refinement of teaching and personal skills in typewriting and business machine operation. Latest teaching techniques examined, demonstrated and evaluated.

*Prerequisites:* Undergraduate courses in typewriting and methods or teaching experience.

3 semester hours

**0838-527A,B,C,D. (10-527A,B,AC,D) Workshop in Clerical and Secretarial Practice, Advanced Stenography, Advanced Typewriting, Office Machines**

Workshops, which may run simultaneously, provide opportunity for study, planning and development of teaching materials and projects fitted to a particular teaching situation. Instruction is on individual and small-group basis with occasional seminar meetings of the entire group.

*Prerequisite:* Teaching experience in the field.

3 semester hours

**0838-528 (10-528) Field Studies in Business Education**

Opportunity for the classroom teacher to visit and evaluate some of the practices of business offices, industries and retailing organizations in the metropolitan area. Experience in planning, conducting and follow-up of field trips.

3 semester hours

**0838-529 (10-529) Audiovisual Aids in Business Education**

Develops knowledge and skill using many audio and visual aids available in teaching business subjects. Opportunity provided for developing and constructing teacher-made audiovisual aids.

3 semester hours

**0838-530 (10-530) Business Education in Post-High School Institutions**

Designed to acquaint student with purposes, curricula, method and problems of teaching business education subjects in post-high school institutions, including technical institutions, two-year and four-year colleges.

3 semester hours

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### **0838-570 (10-570) Business Education for Teachers of the Disadvantaged**

Prepares teachers of business subjects to meet specific needs of disadvantaged students. Occupational opportunities open to the disadvantaged and the secondary school business program which will prepare them for these occupations. Teachers will build curricula and develop special instructional materials and methods needed for disadvantaged students in the inner-city schools.

3 semester hours

### **0838-603 (10-603) Seminar in Business Education**

Matriculated graduate student in business completes research project in business or distributive education. Course also prepares student for Master of Arts comprehensive examinations.

*Prerequisites:* 0838-501 or 0838-503.

3 semester hours

The following Senior-Graduate courses in Business Education may be elected with the special permission of the graduate advisor. (Descriptions may be found in the current undergraduate *Bulletin*.)

	<i>semester hours</i>
0838-409 Consumer Economics .....	3
0838-434 Introduction to Data Processing .....	3
0838-435 Unit Record Equipment I .....	3
0838-480 Touch Shorthand in Recording Communication .....	2

## **Distributive Education**

### **0840-550 (11-550) Improvement of Instruction in Retailing Subjects**

Study of objectives, content, methods, teaching aids and evaluation procedures for courses such as salesmanship, retail store operation, advertising, merchandising and marketing.

*Prerequisite:* Undergraduate methods in distributive education or teaching experience in distributive education.

3 semester hours

### **0840-552 (11-552) Improvement of Instruction in Wholesaling and Services**

Objectives, content, methods, teaching aids and evaluation procedures for courses such as wholesaling, limited and service types; service, gas stations, cleaning establishments, rent-all and other service organizations.

*Prerequisite:* Undergraduate methods course of distributive education or teaching experience.

3 semester hours

### **0840-553 (11-553) Principles and Problems of Adult Extension Distributive Education**

Organization, promotion, publicity and methods for adult extension classes — using community resources. Includes in-service, preservice and advanced courses for adults in urban and suburban situations.

3 semester hours

### **0840-554 (11-554) Workshop in Problems of Distributive Education**

Intensive analysis of problem-solving in distributive education programs. Discussion on experiences in teaching and administering distributive education programs. Committee work-seminar method is used.

3 semester hours

**0840-55 (11-555) Field Studies in Distributive Education**

Provides opportunity for the classroom teacher to visit retail organizations, wholesaling houses, distribution centers and service establishments in the metropolitan area and evaluate their practices. Experience is gained in planning, conducting and follow-up of field trip.

3 semester hours

**0840-556 (11-556) The Project Method in Distributive Education**

Development, use and coordination of individual, small group and class vocational projects providing simulated occupation experiences for the high school "non-cooperative" distributive education student.

3 semester hours

**0840-557 (11-557) Audiovisual Aids in Distributive Education**

Provides the classroom teacher an opportunity to view and use various audiovisual multi-media material and to evaluate, plan and produce own multi-media projects.

3 semester hours

**0840-558 (11-558) Distributive Education in the Two-Year College**

Objectives, curriculum and administration of the distributive education programs in two-year community colleges.

3 semester hours

**0840-559 (11-559) Distributive Education for the Disadvantaged Student**

Prepares teachers of distributive education to meet specific needs of disadvantaged students. Special curriculum development as it relates to the cooperative work experience program. Coordination problems in the inner-city area.

3 semester hours

The following Senior-Graduate courses in Distributive Education may be elected with the special permission of the graduate advisor. (Descriptions of courses may be found in the undergraduate *Bulletin*.)

	<i>semester hours</i>
0840-452 Principles of Vocational Education .....	2
0840-453 Curriculum Development in Distributive Education .....	2
0840-454 Principles and Methods of Teaching Distributive Education and Coordination .....	3
0840-456 Organization and Administration of Distributive Education .....	2
0840-457 Organization and Administration of Co-curricular Activities in Distributive Education .....	2

## CHEMISTRY

Note: Course numbers in this department designated with a prefix 1905 were formerly listed with the prefix 82

**1905-501 The Teaching of Chemistry in Secondary Schools**

Objectives, recent trends, methods of presentation, courses of study, lesson planning, instructional aids and subject matter of high school chemistry.

*Prerequisite:* 16 semester hours in chemistry.

3 semester hours (3 hours lecture)

**1905-510 Food Inspection and Analysis**

Composition of commercial food products, laws governing purity and marketing of foods, methods of analysis of food. Laboratory work is an extension of chemical and



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microscopic analysis to provide application of various analytical methods. Methods of extraction; detection of adulterants, preservatives, coloring; estimation of carbohydrates, fats, proteins, minerals and vitamins are included in the laboratory work of the course.

*Prerequisites:* Organic chemistry and quantitative analysis.

*4 semester hours (2 hours lecture, 4 hours laboratory)*

### 1905-521 Theoretical Inorganic Chemistry

Designed for students who have had a course in inorganic chemistry. Foundation in principles of inorganic chemical reactions and properties of inorganic compounds on basis of structure. Theories of atomic and molecular structure stressed, as well as principles of bond formation. Idea of periodicity will serve as essential theoretical foundation for the entire course.

*Prerequisite:* Advanced inorganic chemistry.

*3 semester hours (3 hours lecture)*

### 1905-530 Qualitative Organic Analysis

Methods of identification of unknown organic substances. The value and difference between this and many other laboratory courses, is that as yet no scheme has been devised which reduces the course to the mere following of directions. At every step in the analysis, the student is required to exercise his own judgment. He must rely on his own faculties for observation and originality in planning his work in order to attain a complete and successful characterization of an unknown organic compound.

*Prerequisite:* Organic chemistry.

*4 semester hours (2 hours lecture, 4 hours laboratory)*

### 1905-531 Advanced Theoretical Organic Chemistry

Modern theories of organic chemistry with emphasis on electronic theory and reaction mechanisms.

*Prerequisite:* Organic chemistry.

*3 semester hours (3 hours lecture)*

### 1905-535 Advanced Biochemistry

Selected concepts in biochemistry examined with in-depth lecture and laboratory experimentation. Trains students in biochemical research and analytical methods.

*Prerequisites:* General biology, organic chemistry, elementary biochemistry.

*4 semester hours (2 hours lecture, 4 hours laboratory)*

### 1905-540 Chemical Thermodynamics

Provides the foundation of a sound theoretical background in reaction chemistry and reaction kinetics. Deals with the applications of thermodynamic theories and functions in specific fields in order to highlight their practical significance.

*Prerequisites:* Calculus C, physical chemistry.

*3 semester hours (3 hours lecture)*

The following Senior-Graduate courses in Chemistry may be elected with the special permission of the graduate advisor. (Course descriptions will be found in the current undergraduate *Bulletin*.)

	<i>semester hours</i>
1905-410 Advanced Quantitative Analysis .....	4
1905-411 Water Analysis and Purification .....	3
1905-420 Advanced Inorganic Chemistry .....	4
1905-430 Advanced Organic Chemistry .....	3
1905-435 Biochemistry .....	4
1905-440 Atomic Structure and Bonding .....	2

1905-450	Research Seminar in Chemical Literature .....	2
1905-451	Individual Laboratory Research in Chemistry .....	by arrangement
1905-460	Industrial Chemistry .....	4
1905-465	Introduction to Radiochemistry .....	2

## COMMUNICATION SCIENCES AND DISORDERS

### Advanced Foundation Courses

#### **1220-513 (97-513) Parent Counseling in Communication Disorders**

Parent-child-clinician triad analyzed with emphasis on parent counseling regarding home management of the child, interpretation of diagnostic and therapy findings and referral.

*Prerequisite:* 1220-411.

*3 semester hours*

#### **1220-522 (97-522) Advanced Phonetics**

Skill in use of phonetics is developed further in recognizing and distinguishing acceptable English speech sounds, deviant speech sounds, regional variations in standards of American English and sounds in foreign languages. Stress, phrasing and intonation patterns used in speaking English, with some analysis made of these elements in other languages.

*Prerequisite:* 1220-104 or equivalent.

*3 semester hours*

#### **1220-533 (97-533) Supervision of Speech and Hearing Programs**

Develop skills in supervision of beginning clinicians by experienced therapists. Emphasis on developing criteria for evaluation, writing critiques and understanding interpersonal relationships that enhance teaching through criticism.

*3 semester hours*

#### **1220-533 97-534 Advanced Anatomy and Physiology of the Vocal and Auditory Mechanisms**

Basic anatomy of mechanisms of speech reception and expression. Consideration given to the integrated functioning of the central nervous system, the automatic nervous system and the endocrine system. Effects of abnormalities of structure and function of the speech and hearing processes emphasized. Discussion includes the medical and surgical aspects of rehabilitation and hygiene of the ear, nose and throat. Demonstrations and supervised laboratory dissections are included.

*Prerequisite:* 1220-208 or equivalent.

*3 semester hours*

#### **1220-533 (97-572) Speech Science and Instrumentation**

Analysis of speech production and reception through use of equipment designed to measure selected features of the communication process.

*3 semester hours*

#### **1220-586 (97-586) Education of the Handicapped**

Emphasis on: role of the teacher on the professional team, state and federal legislation relating to handicapped children and adults and community resources for the special child.

*3 semester hours*

#### **1220-591 (97-591) Organization and Administration of Communication Disorders Programs**

Problems of organizing and administering a comprehensive speech program in a school

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system. Consideration given to curriculum development, teacher-administration relationships, class scheduling, reports and records, in-service training and integration of the speech program with the total school curriculum.

*3 semester hours*

### **1220-594A,B (97-594A) Independent Study**

Students select an area of communication sciences and disorders and, with advisement, study the literature in the field, observe related programs at special schools and centers and write reports on findings. Regular conferences with instructor arranged for guidance and evaluation.

*1 semester hour*

### **1220-620 (97-620) Orientation and Observation in Special Education**

Special education with emphasis on community resources, professional roles and responsibilities and team operations. On-site visits to special classes and rehabilitation centers.

*3 semester hours*

The following Senior-Graduate courses in Communication Sciences and Disorders may be elected with permission of the graduate advisor. These courses are especially designed for students who wish to fulfill certification requirements in speech correction or for graduate students needing to fulfill prerequisites for matriculation for the Master's degree in Communication Sciences and Disorders. Specialized areas in the speech sciences are offered as a workshop with attendance required during all or part of the six-week summer session, depending upon the number of units elected. 1220-439A,B,C must be taken in sequence. (439D may be taken with 439C.) A post summer-session semester, when offered, makes it possible to complete all of the requirements for speech correction in one summer. Prerequisite or Corequisite: Psychology and Education of the Handicapped (2001-564 or 565 or 1220-586.)

*semester hours*

1220-439A	Phonetics .....	3
1220-439B	Anatomy and Physiology of the Auditory and Vocal Mechanisms .....	3
1220-439C	Speech Pathology .....	3
1220-439D	Practicum in Speech Correction (Equiv. of 461) .....	1
1220-439E	Advanced Practicum in Speech Correction .....	1
1220-439G	Speech Correction .....	3
1220-439H	Clinical Procedures in Audiology .....	3

## **Audiology and Teaching Hard of Hearing and Deaf**

### **1220-531 (97-531) Advanced Audiology**

Increase skill in administering tests for determining pure-tone and speech reception thresholds. Emphasis placed on evaluation and interpretation of test results and analysis of client histories. Principles and techniques of hearing aid evaluation, measurement of recruitment and tests for psychogenic deafness and malingering are studied. Consideration also given to pre- and post-surgical audiometry and to special problems of differential diagnosis in testing children.

*Prerequisite:* 97-468.

*3 semester hours*

### **1220-536, A,B (97-536A,B) Seminar in Audiology**

Significant issues in audiology and opportunities for observation and participation in advanced clinical procedures. Minimum of 150 clock hours of practicum experience on- and off-campus required.

*6 semester hours*

**1220-537 (97-537) Hearing Aids and Hearing Aid Selection**

Principles and procedures involved in fitting hearing aids and differential selection based on audiometric findings. Characteristics of hearing aids and ear molds discussed.  
3 semester hours

**1220-538 (97-538) Differential Audiometry**

Analysis of sophisticated and advanced audiometric tests used in differential diagnosis of hearing problems. Demonstration and analysis of functional hearing loss tests, evoked response audiometry, difference limen tests, G.S.R. audiometry and tests for central auditory problems.  
3 semester hours

**1220-540 (97-540) Practicum in Audiology**

Directed and supervised experience in advanced audiometric tests for differential diagnosis of hearing impairment.  
*Prerequisite:* 97-A538.  
2 semester hours

**1220-541 (97-541) Advanced Practicum in Audiology**

Directed and supervised experience in advanced audiometric tests for differential diagnosis of hearing impairment.  
*Prerequisite:* 97-538.  
2 semester hours

**1220-542 (97-542) Identification Audiometry and Conservation Programs**

Approaches to identification of hearing problems in school children and hearing conservation programs. Industrial audiology evaluated in terms of noise pollution, damage risk criteria and employment connected hearing disability.  
3 semester hours

**1220-561 (97-561) Clinical Practicum in Teaching the Deaf**

Hours arranged to observe and teach in a school or program for the deaf. Required of students who have little or no previous experience. Total of 125 hours must be completed with no more than 35 hours credited for previous experience elsewhere.  
3 semester hours

**1220-570 (97-570) Teaching Speech to the Hard of Hearing and Deaf**

Methods and materials of teaching speech to children with severe hearing impairment. Techniques involving auditory training with amplification and group hearing aids included.  
2 semester hours

**1220-571 (97-571) Methods of Teaching the Deaf and Hearing Impaired**

Special methods of teaching from pre-school to the adult level with special emphasis on language development and compensatory learning.  
3 semester hours

**1220-574 (97-574) Psychology of Deafness**

Effects of deafness and hearing loss on the intellectual, social and emotional development of the child. Effects on congenital and acquired hearing loss and the behavior of hearing members of the client's world.  
3 semester hours

**1220-575 (97-575) Language Development for the Deaf**

Communication problems of the deaf with emphasis on application of psycholinguistic theory to development of language skills.  
3 semester hours



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### **1220-576 (97-A576) Aural Rehabilitation for Adults**

Advanced study of techniques for developing lipreading and auditory training. Social and vocational aspects of communication emphasized.

3 semester hours

### **1220-576 (97-576) Aural Rehabilitation for Children**

Curriculum development for programs of lipreading and auditory rehabilitation with emphasis on amplification systems and parent counseling.

3 semester hours

### **1220-578 (97-577) Seminar in Research in Deafness and Hearing Impairment**

Significant problems in the field of deafness and hearing impairment investigated and published research projects evaluated. Attention given to critical analysis and experimental design.

2 semester hours

### **1220-593 (97-593) Seminar in Research in Audiology**

Significant problems in the field of audiology investigated and published research projects evaluated. Attention given to critical analysis and experimental design.

2 semester hours

## **Language Development and Disorders**

### **1220-465 (97-465) Seminar in Black Language**

Survey of Black language patterns and their relation to standard English in the Black speech community. Application of this knowledge to the goals of the speech therapist in predominantly Black schools.

*Prerequisite:* Course in phonetics and psycholinguistics.

3 semester hours

### **1220-500 (97-500) Speech and Language Acquisition**

Introduction to the nature of language and language development in young children. Acquisition of phonological, semantic and syntactic systems studied in framework of biological, cognitive and linguistic theory.

3 semester hours

### **1220-501 (97-501) Language Development in the Primary Grades**

Language activities in the elementary school curriculum analyzed with emphasis on the development of techniques for enhancing oral language proficiency in the school age child.

3 semester hours

### **1220-502 (97-502) Psychology of Oral Communication**

Development of speech and language in the individual and problems of communication that lead to confusion of meaning and misunderstanding. Psychology of persons who are handicapped in speech, hearing and/or reading, including those with hysterical or psychogenic impairments. Contributions of learning theory and of psycholinguistics.

3 semester hours

### **1220-583 (97-583) Language Disorders of Children**

Psycholinguistic components of language, factors involved in language development and language disorders associated with developmental lag, childhood aphasia, deafness, retardation and emotional problems.

3 semester hours

## Learning Disabilities

### **1220-581A,B (97-581A,B) Diagnosis and Correction of Children with Learning Disabilities**

Conceptual model of learning disabilities. Emphasis on parameters of the diagnostic evaluation of the child who is failing in school. Tests will be demonstrated and students trained in analyzing results and prescribing individualized educational plans.

*3 semester hours each*

### **1220-581C (97-581C) Practicum in Learning Disabilities**

Demonstration and practice teaching with children who have learning disabilities. Teacher-interns supervised providing therapeutic techniques in individual and group experiences. Children and parents in the on-campus Learning Disabilities Center participate in the practicum experience.

*Prerequisite or co-requisite: 1220-581B*

*3 semester hours*

### **1220-582 (97-582) Remediation of Basic Skills (Methods and Materials)**

Techniques for remediation of reading, writing, spelling, arithmetic, speaking and listening problems with children who are performing poorly in school.

*3 semester hours*

### **1220-587 (97-587) Educational Technology in Teaching Children with Learning Disabilities**

Applications and principles of programmed instruction and technological equipment for teaching atypical children. Emphasis on individualized instruction, feedback theory and behavior modification.

*3 semester hours*

### **1220-588 (97-588) Teaching Specialized and Vocational Skills to Children with Learning Disabilities**

Pre-vocational study of the atypical child's interests and abilities. Pre-vocational study channeled into productive areas related to industrial arts, arts and crafts, home economics and business skills.

*3 semester hours*

### **1220-589 (97-589) Seminar in Research in Learning Disabilities**

Significant problems in field of learning disabilities investigated and published research projects evaluated. Attention given to critical analysis and experimental design.

*2 semester hours*

## Speech Pathology

### **1220-511 (97-511) Advanced Speech Pathology**

Evaluation of modern techniques of speech rehabilitation and review of research findings in the area of voice, articulation, rhythm and symbolization disorders. Ways in which speech rehabilitation may be integrated with related health services and educational services in schools and special centers.

*Prerequisite: 1220-410 or equivalent.*

*3 semester hours*

### **1220-512 (97-512) Advanced Diagnosis of Communication Disorders**

Continuation of diagnosis procedure including tests for multiple-handicapped children with communication disorders. Opportunities provided for interviewing parents, testing and report writing.

*3 semester hours*

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### **1220-514 (97-514) Communication Disorders of the Aged**

Communication disorders associated with pathologies that tend to occur in later life, i.e., aphasia, multiple sclerosis, Parkinsonism and cerebral arteriosclerosis.

*Prerequisite:* 1220-410.

*3 semester hours*

### **1220-515 (97-515) Voice Disorders**

Selected disorders of voice production. Consideration given to etiology, pathology and therapy related to vocal nodules, contact ulcers, paralysis of the vocal cords and other organic voice problems. Speech rehabilitation techniques for the laryngectomized and for persons with cleft palate conditions

*3 semester hours*

### **1220-532 (97-532) Practicum in Speech Rehabilitation**

Opportunities for practical application of diagnostic and rehabilitative techniques with children and adults who have major speech and language problems. Qualified students participate in specialized laboratory experiences which include planning and supervising speech therapy sessions, provide rehabilitative services, interview applicants and administer audiometric tests.

*Prerequisite:* 60 clinical hours in speech practicum.

*3 semester hours*

### **1220-535A,B (97-535A,B) Advanced Seminar in Communication Disorders**

Diagnostic, therapeutic and evaluative techniques employed in working with children and adults who have speech disorders of organic etiology. Minimum of 150 clock hours of supervised teaching must be accumulated.

*Prerequisite:* 1220-410 (These courses taken concurrently may constitute full-time summer session requirement for part-time graduate students.)

*6 semester hours*

### **1220-584 (97-584) Cleft Palate and Oral Deformities**

Etiology and characteristics of cleft palate and oral deformities or malfunctions in children. Emphasis on speech therapy and surgical repair procedures. Unit on tongue thrust therapy included.

*3 semester hours*

### **1220-585 (97-585) Stuttering**

Principles and methods of speech therapy with children who stutter. Methods of evaluation, specific techniques of speech therapy and principles coordinating speech therapy with home and school life. Demonstration with children who stutter serves as the basis for study and discussion.

*3 semester hours*

### **1220-592 (97-592) Seminar in Research in Speech Pathology**

Significant problems in the field investigated and published research projects evaluated. Attention given to critical analysis and experimental design.

*3 semester hours*

## **ECONOMICS**

### **2204-540 (92-540) Development in Economic Education**

Insights into the most recent experiments incorporating economic education into the curriculum, K-12. The most useful restructuring of curriculum to promote economic understanding analyzed. Materials, written and audio-visual, specifically designed for

economic education examined. Guest lectures supplement the experience of the course instructor.

2 semester hours

**2204-541 (92-541) Foundations of Contemporary Economic Thought**

Study of antecedents of current economic theory; analysis of economics as a cumulative science through examination of the works of the creative economists and fostering of understanding the uses and limitations of economic theory.

3 semester hours

**2204-542 (92-542) Economic Stability and Growth**

Study of the determinants of stability and growth; analysis of policies available to developing nations that deal with instability and stagnation and fostering of understanding of the issues involved in efforts to promote economic growth.

3 semester hours

**2204-543 (92-543) United States in the World Economy**

Study of the theory and institutions of American foreign trade; analysis of the alternatives available to the American people and fostering of understanding of the problems of American foreign economic policies.

3 semester hours

**2204-544 (92-544) Government and Business**

Study of the evolution of government influences on the functioning of the American economy; analysis of the causes and consequences of government regulation and control and fostering of understanding of the relationship between economic analysis of and public policies.

3 semester hours

**2204-545 (92-545) Economics of Labor and Manpower**

Evaluate principle trends in labor-management relations in both private and public sectors of the economy. Current problems: employment theory, economics of poverty, manpower policies, and collective bargaining in private and public sectors of the economy.

3 semester hours

The following Senior-Graduate courses in Economics may be elected with special permission of the graduate advisor. (Course descriptions may be found in the current undergraduate *Bulletin*.)

	<i>semester hours</i>
2204-402 International Economics .....	3
2204-403 Comparative Economic Systems .....	3
2204-406 Workshop-Seminar in Economic Education .....	3
2204-414 Development of Economic Thought .....	3



## EDUCATIONAL COMMUNICATIONS AND TECHNOLOGY

This program offers courses designed to prepare instructional personnel in the audio-visual media and communications fields. Moving beyond the classical notion of an audiovisual program, a primary goal is the task of exploring the realm of technology and then seeking to adapt technology to education. The department also offers students the background needed in the media and technology area to produce high quality instruction in colleges, public and private schools, industry, military service and other agencies.

### **0841-520 (38-520) Production of Audio-Visual Instructional Materials: Part I Non-Projected Materials**

Non-projected materials, such as drawings, charts and graphs, bulletin boards, felt-boards, maps, demonstrations, exhibits and displays, dioramas and 3-dimensional models.

*Prerequisite:* 0841-400

*3 semester hours*

### **0841-521 (38-521) Production of Audio-Visual Instructional Materials: Part II Projected and Audio Materials**

Production of projected and audio materials, such as slides, filmstrips, opaques, transparencies, magnetic tapes and motion pictures.

*Prerequisite:* 0841-400

*3 semester hours*

### **0841-540 (38-540) Television Production Seminar**

Combination lecture, laboratory and seminar experiences in television studio production. Camera operation, basic principles of lighting, sound for television, elements of television set design, functions of floor director, control room operations and basic television directing.

*3 semester hours*

### **0841-541 (38-541) Television Programming Seminar**

Combination lecture, laboratory, seminar experience in the programming of ideas for television, the creative concept, pre-planning, executing the visual idea and evaluating the visual presentation. Local and commercial television programs examined.

*3 semester hours*

The following 400 level Senior-Graduate courses are available as electives with special permission of the graduate advisor. Course descriptions may be found in the current undergraduate *Bulletin*.

*semester hours*

0841-400 (38-400) Selection and Utilization of Audio-Visual Materials ..... 3

0841-420 (38-420) Teaching Materials Workshop ..... 3

*Prerequisite:* 0841-400

## EDUCATIONAL FOUNDATIONS AND COMPARATIVE STUDIES

**Objectives** — To meet the new and critical needs of society while improving established programs which relate to the educational demands of our society.

**Offerings** — Foundation courses in educational philosophy and sociology designed to contribute to the basic preparation of public school educators and at the same time satisfy specialized demands beyond the limits of the public schools.

**0821-520 (32-520) Educational Thought to the 18th Century**

Philosophic assumptions behind various educational theories proposed through the centuries, from Classical to Modern schools of thought. Development of Realism, Idealism, Experimentalism, Scholasticism and other schools will be discussed through the consideration of such great thinkers as Plato, Aristotle, Aquinas, Descartes, Rousseau and others.

3 semester hours

**0821-521 (32-521) Contemporary Educational Thought**

Critical evaluations of specific schools of philosophy which have contributed to educational thought in the 20th century such as Pragmatism, Progressivism, Existentialism, Perennialism, Reconstructionism and others. Analysis of current trends and problems as well as the principles underlying educational theory and practice.

3 semester hours

**0821-523 (32-523) Existentialism in Education**

Existential motifs in Sartre, Kierkegaard, Nietzsche, Heidegger, Buber and Camus with emphasis on the implications for educational aims, curricula, methods and values. Works of contemporary educators such as Morris, Kneller, Greene and Happer who have begun to define the meaning of Existentialism for education.

3 semester hours

**0821-525 (32-525) Ethical Problems of Educational Practice**

Survey of factors involved in value formation in our society and values actually taught in school today. Consideration of such questions as "Who should be taught in the schools?," "Can values be taught to children?," "What ideals are important for boys and girls to learn?" or "What should a student's role or position in school be?"

3 semester hours

**0821-540 (32-540) Social Forces and Education**

Examination of various facets of society that have a distinct impact upon the educational system. Analysis of economic, political, social, ethnic and religious forces as they relate to problems of educational systems. Field studies included.

3 semester hours

**0821-544 (32-544) Social Class and Education**

Social, ethnic and racial customs as they relate to class structure and educational values. Traditions promoted by various social groups, and the effect of such traditions on American education. Psychological patterns evolving from such customs and traditions.

3 semester hours

**0821-545 (32-545) Political Forces and Education**

Political structure and its influence upon the educational system and the ability of education to influence the political system. Specific roles that education and educational leaders play in the various levels of governmental bodies.

3 semester hours

**0821-540 (32-560) Comparative Studies of Educational Systems**

Educational institutions and systems in various areas of the world with particular attention given the following problems: the relationship between social structure and the types of educational institutions, the struggle for change within industrialized societies and efforts for educational change within developing areas. Studies of education in Latin America, Germany, England, France, Soviet Union, Israel, India, China, Japan and selected areas of tropical Africa.

3 semester hours

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### **0821-561 (32-561) Education in Western Europe**

Variations in educational thinking and practices in selected countries. Factors influencing educational developments such as political, ideological, socio-economic forces and the inter-relationship between school systems and their cultural contexts.

*3 semester hours*

### **0821-564 (32-564) Education in Latin America**

The basic social and economic structure and how that structure relates to secondary school and university systems.

*3 semester hours*

The following 400 level Senior-Graduate courses are available as electives with special permission of the graduate advisor. (Course descriptions may be found in the current undergraduate *Bulletin*.)

### **0821-440 (32-440) Sociological Foundations of Education**

*3 semester hours*

### **0821-445 (31-445) Puerto Rican Children in Mainland Schools**

*3 semester hours*

## **EDUCATIONAL LEADERSHIP (Administration and Supervision)**

### **0827-510 (33-510) Educational Administration I**

Nature and dynamics of organizations from the viewpoints of social and behavioral sciences. Leadership, decision-making, conflict resolution and other theories are considered in the educational setting. Impact of environmental and personal forces on organizational behavior.

*Prerequisite:* One and one-half years of successful teaching under certification.

*3 semester hours*

### **0827-511 (33-511) Educational Administration II**

Processes and findings of organization science applied to educational problems. Frameworks for instruction, personnel, finance, facilities, services and public participation at the school district level considered. Emphasizes issues, trends and contemporary problems.

*Prerequisite:* Educational Administration I (0827-510).

*3 semester hours*

### **0827-512 (33-512) Administration of Elementary Schools**

Educational leadership required for effective elementary school organization and administration. Changing role of the principal, his relationships with staff and students and current principles, practices and techniques with regard to scheduling, staff utilization, plant operation, student activities and school community relations.

*Prerequisite:* Educational Administration I (0827-510).

*3 semester hours*

### **0827-513 (33-513) Secondary School Administration**

Special administration problems of the junior and senior high school. Recruitment of staff; scheduling of teachers and students; department organization and school morale. Recent experiments in organization structure. Supervision of instruction as a major function of administration. Current demands of adults in the community. How the secondary school operates in relation to the elementary school and higher education to



help design education as a continuous process. Students write a paper on a special administrative problem.

*Prerequisite:* Educational Administration I (0827-510).

3 semester hours

**0827-514 (33-514) Vocational School Administration**

Characteristics, needs, problems and organizational patterns of vocational schools. Experiences, procedures, practices for appraising programs and individual achievement. Identification and assessment of current issues and trends in technical and vocational education as an integral part of the total school program.

*Prerequisite:* Educational Administration I (0827-510).

3 semester hours

**0827-515 (33-515) Supervised Field Experiences in Administration and Supervision**

Students are assigned to a particular elementary, junior or senior high school where, under the guidance of a school administrator or supervisor, they carry out certain functions of these positions. A college staff member acts as coordinator and supervisor of this activity by visiting the school and consulting with the student, observing him in action and planning with the school personnel for improvement and evaluation of the student's work. (Open only to matriculated Master of Arts students.)

3 semester hours

**0827-521 (33-521) School Law**

Legal theory, practical politics, relationship of school district organization to other units of government, appellate function of the State Commissioner of Education and the State Board of Education, New Jersey school laws (Title 18A of the Revised Statutes) and Rules and Regulations of the State Board of Education and their decisions. New Jersey School legal structure compared with that of other states.

3 semester hours

**0827-523 (33-523) School Plant Planning**

School plant planning which treats the relationships between educational facilities and educational programs. School site selection, development of educational specifications, the school's physical environment, selection of equipment, programming of various facilities based on curricula and community needs. Group visits to exemplary educational facilities are an integral part of the instructional process.

*Prerequisite:* A course in the principles and methods of curriculum design and Educational Administration I (0827-510).

3 semester hours

**0827-526 (33-526) School Business Administration**

Role of school business administration in the public school. Various functions and structures of operations and techniques employed in operation. Various simulation techniques are utilized to construct both a traditional and PPBS budget.

*Prerequisite:* Educational Administration I (0827-510)

3 semester hours

**0827-540 (33-540) Supervision I**

Supervisory role of school personnel as principals, coordinators and department and subject area supervisors both in elementary and secondary schools. Contribution of supervisors in instruction and in supporting the professional work of classroom teachers.

*Prerequisite:* One and one-half years of teaching experience.

3 semester hours



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### **0827-541 (33-541) Supervision II**

Applies theories of supervision to the day-to-day operation of schools at certain levels and within special subject areas of study. How to organize for instructional improvement and innovation; how to give special attention to new teachers, probationary teachers. Each student prepares a notebook or file on helpful ideas, plans, descriptions of practice, materials of instruction suited to the level or special subject area in which he plans a career.

*Prerequisite:* Supervision I (0827-540) or its equivalent.

*3 semester hours*

### **0827-550 (33-550) Historic and Philosophic Development of Adult-Continuing Education**

Identification of historic, philosophic, psychological and sociological basis upon which present-day adult-continuing education is built in the United States. A historic perspective will be utilized.

*3 semester hours*

### **0827-551 (33-551) Principles and Problems in Adult-Continuing Education Program Development**

Working principles and current practices in the education of adults in public school systems, business and industry, government, voluntary organizations, home-study organizations and non-credit programs of higher educational institutions.

*3 semester hours*

### **0827-552 (33-552) Community and Educational Program Development in Adult-Continuing Education**

Translate social, physical, intellectual and psychological patterns and needs of the adult learner into learning objectives applicable to community program development. Curricular materials and techniques developed and applied to individualized adult programs of various community and educational agencies.

*3 semester hours*

### **0827-553 (33-553) Administration and Supervision of Adult-Continuing Education**

Various administrative and supervisory roles in directing Adult-Continuing Education Program. Analysis and application of the technical, human relation and conceptual skills of administration problems.

*3 semester hours*

### **0827-552 (33-552) Community and Educational Program Development in Adult-Continuing Education**

Understand and utilize para-professionals and volunteers in a variety of educational agency programs, including community programs, neighborhood organizations, anti-poverty programs and schools. Such roles include: counselor and family aides, clerical aides, library aides, audio-visual aides, tutors and teacher aides. Preparing and training para-professionals and volunteers for career ladder positions in adult-continuing education.

*3 semester hours*

### **0827-559 (33-559) Seminar and Practicum in Adult-Continuing Education**

Awareness and skills in the teaching of adults, with particular attention to working with the educationally disadvantaged young and older adult through lecture-discussion, demonstration and practicum experience.

*3 semester hours*

**0827-560 (33-560) The American College**

Overview of structure and functioning of the American college. Relevant history, philosophy, sociology and politics will be reviewed, with the goal of understanding the college as a unique and dynamic institution in American society today, e.g., educational opportunity and the organization of higher education; open admissions; status, trends and implications; minority group youth in higher education; student initiatives for reform; faculty governance; etc.

*3 semester hours*

**0827-565 (33-565) The Two-Year Junior College**

History, purpose, patterns and trends of the two-year college, including the junior college, the community college and university extension centers.

*3 semester hours*

**0827-610 (33-610) Theory and Research in Administration**

Applies organization science to individual problems in educational administration. Experiences in the internship of field experience are given scholarly analysis.

*Prerequisite:* Permission of graduate advisor.

*3 semester hours*

**0827-611 (33-611) Advanced Seminar on Educational Issues**

Final integrating experience in the leadership program. Implications for educational administration of major contemporary issues and trends.

*Prerequisite:* Permission of graduate advisor.

*3 semester hours*

**0827-615 (33-615) Supervised Field Experience in Educational Leadership**

Assigned work within an educational agency, operating at the level and in the domain of professional specialty. Work is under an established administrator on some limited function of the position, approved through mutual agreement among the student, the administrator and the college supervisor. This experience is not to be construed as an "internship," as it will not encompass the total job description of the administrator. A written report on the activity of research paper will be approved by the administrator and presented to the college supervisor, who will evaluate the total experience.

*Prerequisite:* Theory and Research in Administration

*6 semester hours*

**0827-616 (33-616) Internship in Educational Administration**

Full semester assignment of guided work within an educational institution's administrative office. Sixth year students are eligible to choose this internship plan, but it is advised that arrangements be made for released time, at least one half time, if the internship is to be carried on in an institution where student is employed. The experience is planned to include a wide variety of administrative experiences such as locating and interviewing candidates for positions, scheduling, inservice professional development, special committee leadership, projects that influence curriculum, building arrangements and budgets. The sixth year student may be required to take 0827-610 (33-610) or 0824-605 (34-605) for three additional semester hours during this internship. In all cases, he will complete his research project as a part of his internship assignments. (Open only to Post-Master Study.)

*6 semester hours*

**0827-620 (33-620) Systems Analysis in Education**

Utilizes latest techniques in operations research for educational purposes. Systems analysis techniques studied and utilized by student in an instructional, curriculum or admin-

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istrative mode. Simulation techniques are widely used in classroom-oriented activities.

*Prerequisite:* A course in curriculum and/or school administration.

*3 semester hours*

### **0827-622 (33-622) School Finance**

Current economic environment, state, local and federal taxation, state school aid theory and practice, school district indebtedness, statutory school budget and fiscal controls, various cost-quality instruments and role of school fiscal structure in relation to local, state and federal governments.

*Prerequisite:* Educational Administration I (0827-510); School Law (0827-521).

*3 semester hours*

### **0827-623 (33-623) Advanced School Plant Planning**

Advanced course in school plant enables student to plan an innovative educational facility. Independent (contract) study approach to instruction, coupled with scheduled critiques with professor is main method of instruction.

*Prerequisite:* A course in school plant planning.

*3 semester hours*

### **0827-625 (33-625) School Plant Maintenance and Operation**

Latest techniques in the maintenance and operation of the school plant. Various specialists in specific areas of study utilized in the instructional program. Topics include: determination of work loads, formulation of job descriptions, supply storage, care of mechanical and hand tools and equipment and care of the school site. (Not offered every year.)

*Prerequisite:* Educational Administration I (0827-510).

*3 semester hours*

### **0827-643 (33-643) Staff Personnel Administration**

Present and analyze personnel practices and problems in current school situations. Roles played by the policy-making bodies, the public, the professionals, the para-professionals and general staff in effective communication for the optimum use of human resources. Problems relate to such areas as recruitment, selection, retention and evaluation of staff.

*Prerequisite:* Educational Administration I (0827-510).

*3 semester hours*

### **0827-650 (33-650) Interdisciplinary Seminar in Adult-Continuing Education (to be developed in cooperation with appropriate departments)**

Problem areas considered include values, communication, decision-making, personality, perception and organization as related to adult-continuing education. Seminar brings together in a systematic fashion the pertinent knowledge and skills of appropriate related disciplines such as Psychology, Anthropology Economics, Political Science, Sociology and the Humanities.

*3 semester hours*

### **0827-651 (33-651) Independent Study in Adult-Continuing Education**

Designed for individuals who, in consultation with an advisor, wish to undertake an in-depth analysis of a specific problem, or who wish to design and implement a particular project in adult continuing education at the local level.

*3 semester hours*



## EDUCATIONAL RESEARCH AND EVALUATION

The purpose of this program is to train educational research and evaluation specialists needed by pre-school centers, school systems, colleges and universities, research and development centers, regional educational laboratories, industry, private research agencies and city, state, and federal research bureaus and to broaden the professional education of students enrolled in various degree programs by offering courses designed to make them literate initiators and users of educational research and evaluation studies.

### **0824-503 (34-503) Methods of Research**

Introduction to the theory and methods of historical, descriptive and experimental research. Course topics include: formulation of a research problem, use of bibliographical sources and reference materials, PERT, measurements in research, types and instruments of research, data collection and analysis, writing the research report and career opportunities in research.

*3 semester hours*

### **0824-504 (34-504) Action Research for Teachers**

Understanding of basic principles and techniques of research which are applicable to classroom situations. Examples of various kinds of classroom research, both of an individual and group nature, studied and analyzed. Practice provided in planning and outlining of specific research projects, the development of experimental designs and evaluation of the structure and outcomes of classroom research. Each student develops, in detail, a plan for a research project. Open to M.A.T. and certification students only.

*3 semester hours*

### **0824-507 (34-507) Measurement and Evaluation I**

Theory and practice to develop comprehension of and skill in constructing tests in the cognitive domain, such as intelligence, achievement and aptitude tests. Laboratory exercises included.

*3 semester hours*

### **0824-508 (34-508) Measurement and Evaluation II**

Theory and practice course to develop comprehension and skill in constructing tests in the affective domain, such as interest tests, attitude scales and self concept tests. Laboratory exercises included.

*3 semester hours*

### **0824-578 (34-578) Testing and Evaluation**

Principles and practices of educational and psychological measurement in guidance and teaching. Course topics include: historical and philosophical orientation; basic statistical concepts underlying measurements; test validity and reliability; response set; test construction; evaluation and interpretation of testing data; grading; reporting to students, parents and administrators; critical analyses of various standardized intelligence, ability and personality tests; experimental tests. Place of tests in the instructional program stressed.

*3 semester hours*

### **0824-603 (34-603) Seminar in Research**

Opportunity to carry out a research project—historical, descriptive, or experimental in nature—culminating in a written report.

*Prerequisite:* Methods of Research (0824-503) or equivalent.

*3 semester hours*



## ENGLISH

### British Literature

#### **1501-500 (20-500) Old English Literature**

Specimens of alliterative poetry, including Beowulf, are read in the original for an appreciation of the literary art and the language medium.

*3 semester hours*

#### **1505-505 (20-505) Chaucer**

Selected works in Middle English.

*3 semester hours*

#### **1501-510 (20-544A) Shakespeare Studies\***

Part I offers the Tragedies, Part II the Comedies, and Part III the Histories. Treated in separate semesters, each part deals with the complete canon in the genre.

*3 semester hours*

#### **1501-511 (20-511) Elizabethan and Jacobean Drama**

Investigates drama before, during and after Shakespeare.

*3 semester hours*

#### **1501-515 (20-515) Seventeenth Century Literature\***

Part I deals with poetry; Part II with prose.

*3 semester hours*

#### **1501-518 (20-518) Milton**

Major writings in verse and prose read and discussed in light of current scholarship.

*3 semester hours\**

#### **1501-520 (20-520) Restoration and Eighteenth Century Drama**

Playwrights from Wycherley to Sheridan.

*3 semester hours*

#### **1501-521 (20-521) Dryden, Pope and Swift**

Reconstructs the context of Restoration and eighteenth century satire in terms of the prevailing mentality and political institutions.

*3 semester hours*

#### **1510-525 (20-525) The Eighteenth Century Novel**

Defoe, Richardson, Fielding, Smollett and Sterne are the principal authors studied.

*3 semester hours*

#### **1501-530 (20-530) British Romanticism\***

Part I studies Wordsworth and Coleridge; Part II, Byron, Shelley and Keats.

*3 semester hours*

#### **1501-531 (30-531) Victorian Studies\***

Part I deals with Non-Fiction writers, such as Carlyle, Mill, Newman, Ruskin, Arnold and Huxley; Part II, with the novelists, such as Dickens, Thackeray, the Brontes, Eliot, Trollope and Meredith; Part III, with the later poets of the era, such as Rossetti, Swinburne, Hardy, Bridges, Hopkins, Thompson.

*3 semester hours*

#### **1501-535 (20-535) Hardy, Joyce, and Lawrence**

The major works are studied intensively.

*3 semester hours*

\*See current announcements for specific content of this course and name of instructor

**1501-540 (20-540) The Modern British Novel**

Working in both the serious and the comic veins, the course deals with such writers as L. P. Hartley, Anthony Powell, Doris Lessing and Kingsley Ames.

3 semester hours

**American Literature**

**1501-550 (20-550) Studies in Early American Literature**

Authors who most effectively or creatively reflected the major cultural developments of the Colonial period.

3 semester hours

**1501-555 (20-555) Emerson, Thoreau and Whitman**

In-depth study of the major works.

3 semester hours

**1501-556 (20-556) Poe, Hawthorne and Melville**

Three nineteenth century writers are evaluated in terms of their own critical assumptions and of recent scholarship.

3 semester hours

**1501-557 (20-557) Twain, Howells and James**

Development of the art of fiction. Works of the three men are studied in relation to the literary heritage they reflect.

3 semester hours

**1501-560 (20-560) Modern American Fiction**

Development of the American novel with emphasis on form, substance, and critical theory. Dreiser, Crane, Anderson, Hemingway and Faulkner are among the authors considered.

3 semester hours

**1501-561 (20-561) Modern American Poetry**

Selected major American poets are studied from Emily Dickinson to the present.

3 semester hours

**1501-563 (20-563) Recent American Fiction**

American fiction since 1950. Authors considered include: Bellow, Wright, O'Connor, Updike, Mailer and Ellison.

3 semester hours

**1501-564 (20-564) American Drama**

Playwrights may be chosen for special study: Eugene O'Neill, Elmer Rice, Maxwell Anderson, George Kaufman, Thornton Wilder, Arthur Miller and Edward Albee.

3 semester hours

**Comparative Literature**

**1503-570 (20-570) Greek Classical Drama**

Plays of Aeschylus, Sophocles, Euripides and Aristophanes are studied in the context of Athenian stage traditions.

3 semester hours

**1503-574 (20-574) Ibsen, Strindberg and Shaw**

Three great forerunners of twentieth century drama are studied intensively.

3 semester hours

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### **1503-575 (20-575) Myth and Literature\***

Part I deals with the relationship of myth and ritual to literature with special attention to the theories of Frazer, Freud, Jung, Campbell, Cassirer and Neumann; Part II investigates recurrences of ancient myths in literature.

Course must be taken in sequence.

3 semester hours

### **1503-576 (20-576) Major Neo-African Writers**

Intensive study of such authors as Machado de Assis, Dunbar, Brown, Cesaire, Senghor, Brooks and Scott in the light of European, American and African scholarship.

3 semester hours

### **1503-577 (20-577) Literature and the Film\***

Designed to examine especially the novel and drama as they appear in film. One genre is chosen for a given semester's study.

3 semester hours

## **Education**

### **1501-580 (20-580) Recent Research and Experiment in the Teaching of English**

This course explores current methods of the teaching of English in the secondary schools and research in language, literature and composition.

3 semester hours

### **1501-581 (20-581) Studies in Communications Skills**

Opportunity for teachers to study new multi-media methods of instructing basic verbal and research skills and to develop and test instructional materials for use in their own classrooms.

3 semester hours

## **Seminars and Thesis**

### **1501-600 (20-600) Seminar in British Literature**

Advanced study of a genre, movement, criticism or a single author in depth. Limit—15 students.

*Approval by instructor*

3 semester hours

### **1501-601 (20-601) Seminar in American Literature**

Advanced study of a genre, movement, criticism or a single author in depth. Limit—15 students.

*Approval by instructor*

3 semester hours

### **1503-602 (20-602) Seminar in Comparative Literature**

Advanced study of a genre, movement, criticism or a single author in depth. Limit—15 students.

*Approval by instructor*

3 semester hours

### **4903-603 (20-603) Seminar in Computers in the Humanities**

Types of literary research suitable for analysis by computer techniques will be described, including studies in linguistic chronology, linguistic geography, authenticity and attribution, stylistic analysis and computer-assisted instruction. Student will learn elementary programming and will complete a computer research project. Limit—15 students.

*Approval by instructor*

3 semester hours

\*See current announcements for specific content of this course and name of instructor.

**1501-605 (20-605) Seminar in Literary Research**

Instruction and practical experience in such areas as reference sources, textual study, kinds of criticism and the basics of editing. Recommended for the first or second semester of graduate study. Limit—15 students.

*Approval of instructor*

*3 semester hours*

**1501-606 (20-606) Thesis Writing**

Working closely with his research advisor, the student conducts a scholarly investigation and completes an acceptable Master's thesis.

*3 semester hours*

## ENVIRONMENTAL EDUCATION

**0843-550 (37-550) Environmental Education**

Familiarize students with historical and philosophical development of environmental education programs. Different emphases as well as need for the application of environmental education in today's structure. Communities and facilities currently involved in programs identified and model program materials studied.

*3 semester hours*

**0843-551 (37-551) Conservation Education**

Give prospective teachers and supervisors an understanding of current conservation and ecological problems. Identification of natural resources, current management practices, and local, state, national and international relationships. Field trips, laboratory experiences, visual aids, printed materials and visiting specialists.

*3 semester hours*

**0843-555 (37-555) Curriculum for Environmental Education**

Techniques and procedures for the development of curriculum guides and materials for all grade levels. Each student develops materials for local school program. Curriculum materials and teaching aids from education and commercial sources surveyed and demonstrated.

*3 semester hours*

**0843-560 (37-560) Practicum in Environmental Education**

Background experience and knowledge to develop, organize, implement and conduct environmental education programs in communities. Through observation of, and participation in ongoing environmental education programs, and through use of an extensive library of environmental education materials, students will formulate an environmental education program consisting of teaching units, activities, lists of teaching aids and a rationale for implementation in their school system.

*Prerequisites:* 0843-550, 0843-555, and 0824-503.

*3 semester hours*

**0843-561 (037-561) Practicum in Camp Leadership**

Techniques and procedures for the development of curriculum guides and materials discussion. Discussion sessions and assigned readings help deal with practical problems.

*3 semester hours*

**0843-562 (37-562) Practicum in Camping Education and Administration**

Practical experience in identification and solution of problems arising in camp administration. Discussion of current practices at both private and institutional camps. Interpretation of educational philosophies and objectives as they relate to camping, finances, personnel selection, waterfront organization, food purchasing, staff supervision, sanitation.



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tion, health and safety, camp management, records and reports, insurance, kitchen management, maintenance and other phases of camp administration. Practical application provided through the techniques used in the children's demonstration camp.  
3 semester hours

## FINE ARTS

### **0831-501 (24-501) Readings in Art Education**

Study of the literature of the foundations of art education. Readings will be selected from philosophy, social and behavioral sciences and the history of art education. Implications of the developments in science and technology.

3 semester hours

### **0831-502 (24-502) Advanced Curriculum Construction**

Curriculum construction and revision, includes both elementary and secondary programs. Study of curricular materials in use in New Jersey and selected materials in use throughout the country. Evaluation of these materials in terms of principles of curriculum construction.

3 semester hours

## Painting, Sculpture, Design

### **1002-511 (24-511) Advanced Painting I**

Studio in painting designed to further the creative impression and technical knowledge of the student in various painting media. Emphasis on personal and professional development through studio work, trips and study of contemporary artists.

*Prerequisites and permission of instructor*

3 semester hours

### **1002-512 (24-512) Advanced Painting II**

*Prerequisites and permission of instructor*

2 semester hours

### **1002-513 (24-513) Advanced Painting III**

*Prerequisites and permission of instructor*

2 semester hours

### **1002-514 (24-514) Advanced Painting IV**

*Prerequisites and permission of instructor*

2 semester hours

### **1002-521 (24-521) Advanced Sculpture I**

Student is expected to explore independently one or two materials and techniques and to begin to find his own directions as a sculptor.

*Prerequisites and permission of instructor*

2 semester hours

### **1002-522 (24-522) Advanced Sculpture II**

*Prerequisites and permission of instructor*

2 semester hours

### **1002-523 (24-523) Advanced Sculpture III**

*Prerequisites and permission of instructor*

2 semester hours

### **1002-524 (24-524) Advanced Sculpture IV**

*Prerequisites and permission of instructor*

2 semester hours

**1002-550 (24-550) Advanced Silk Screen Printing I**

Study and practices of the graphic art techniques of silk screen from the creation of the master design through the construction of necessary printing facilities and printing. Experiences will include use of tusche, glue, stencil lacquer and photographic techniques.

*Prerequisites and permission of instructor*

2 semester hours

**1002-551 (24-551) Advanced Silk Screen Printing II**

*Prerequisites and permission of instructor*

2 semester hours

**1002-552 (24-552) Advanced Intaglio Printing I**

To acquire additional competency and depth of experience in etching, dry point, aquatint and soft techniques. For art majors or other advanced art students.

*Prerequisites and permission of instructor*

2 semester hours

**1002-553 (24-553) Advanced Intaglio Printing II**

*Prerequisites and permission of instructor*

2 semester hours

**1002-554 (24-554) Advanced Woodcut Printing I**

The fine art of the woodcut and its relation to painting in color, size and richness. Cutting of various woods and veneers is demonstrated. Different approaches of printing and inventiveness using other materials in relation to wood are explored. Lectures on prints of the past and field trips to important print exhibitions.

*Prerequisites and permission of instructor.*

2 semester hours

**1002-555 (24-555) Advanced Woodcut Printing II**

*Prerequisites and permission of instructor*

2 semester hours

**1002-556 (24-556) Advanced Lithography I**

Opportunity for the student to acquire competency in the art of lithography. All steps from design and execution of master drawing to finished print are covered. Studio experiences provide the student with first hand knowledge of tools, materials, and techniques of the lithographic process. Adaptation of the lithographic phase of printmaking to classroom use is also studied.

*Prerequisites and permission of instructor*

2 semester hours

**1002-557 (24-557) Advanced Lithography II**

*Prerequisites and permission of instructor*

2 semester hours

**1002-558 (24-558) Advanced Lettering I**

Styles and techniques of lettering applied in such forms as manuscripts, signs, posters, display and advertising layout. A brief introduction to typography is offered in the course.

*Prerequisites and permission of instructor*

2 semester hours

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### **1002-559 (24-559) Advanced Lettering II**

*Prerequisites and permission of instructor*

*2 semester hours*

### **1002-560 (24-560) Advanced Graphic Design I**

Techniques and principles of design of printed matter and displays. Design projects involve elements of layout, illustration, typography, printing process and preparation of copy for the printer.

*Prerequisites and permission of instructor*

*2 semester hours*

### **1002-561 (24-561) Advanced Graphic Design II**

*Prerequisites and permission of instructor*

*2 semester hours*

## **Research and Projects**

### **1001-600 (24-600) Master's Thesis I**

A serious research project in art for student finishing his course work.

*Prerequisite:* The ability to do advanced research in art as acknowledged by the department.

*2 semester hours*

### **1001-601 (24-601) Master's Thesis II**

*2 semester hours*

### **1001-603 (24-603) Seminar in Art (with Thesis Project)**

Opportunity to make an extensive study in the field of art. The seminar extends through the Fall and Spring semesters. It helps the student examine and define precisely a thesis problem he has selected for development and explore it in increasing depth and significance throughout the year. The thesis may be a written document or a studio project. Students are advised to initiate these projects after completing at least two courses on the graduate level in the area of the project and no more than 12 to 16 credits in their general program.

*Approval for 603 should be secured in the Spring or Summer session preceding Fall registration for the course. Approval is gained from:*

- 1. The instructor as to competence in the medium, or background preparation.*
- 2. A faculty member who will serve as personal advisor throughout the project.*
- 3. The departmental graduate advisor who will conduct the 603 seminar.*

*2 semester hours*

### **1001-611 (24-611) Individual Study I**

Advanced students may extend their experience beyond the regular course offering in a chosen field or medium, to a maximum of 12 hours in the particular medium. Direction, conduct and evaluation of the work are developed in consultation with the instructor. As a basis for admission and planning, each student will present a representative selection of his prior work in the chosen medium.

*Permission of instructor and credits to be arranged*

*2-4 semester hours*

### **1001-612 (24-612) Individual Study II**

*Permission of instructor and credits to be arranged*

*2-4 semester hours*

**1011-570 Advanced Photography I**

Studio course provides in-depth study of photography as a visual language. Encouragement of exploration beyond the camera stressed through studio experiences, discussions, criticisms, films, trips and demonstrations.

*Prerequisites and permission of instructor*  
2 semester hours

**1011-571 Advanced Photography II**

*Prerequisites and permission of instructor*  
2 semester hours

**1011-572 Advanced Photography III**

*Prerequisites and permission of instructor*  
2 semester hours

**1011-573 Advanced Photography IV**

*Prerequisites and permission of instructor*  
2 semester hours

## Art History

**1003-590 (24-590) Modern Philosophies of Art I**

Work of the major writers in art in the nineteenth and twentieth centuries examined. Exploration made in the nature of the creative experience, the function of art in the life of the individual and of society, the nature of the creative process, the rise of new materials and institutions and sentiments affecting current thinking in the field. Discussions based on readings of philosophers, poets, social scientists and psychologists.

*For Fine Arts majors or with permission of instructor*  
3 semester hours

**1003-591 Modern Philosophies of Art II**

Writings of 19th and 20th century artists and their interpreters. Such works as the Futurists' "Manifesto" and Kandinsky's "The Spiritual in Art" discussed.

*For Fine Arts majors or with permission of instructor*  
3 semester hours

**1003-592 (24-592) Selected Problems in Art History I**

Selected art problems and iconographic themes of a historic, social and philosophical nature. Selection of topics will depend upon the special areas of the professor or guest professor invited for the semester.

*For Fine Arts majors or with permission of instructor*  
3 semester hours

**1003-593 Selected Problems in Art History II**

*For Fine Arts majors or with permission of instructor*  
3 semester hours

**1003-594 Northern Renaissance Art**

fifteenth and sixteenth century painting in northern Europe with particular attention tolanders and Holland. The development of realism and style in light of their relation to social change and the general ideas of the period including consideration of contemporary music. Emphasis on the work of key personalities such as Jan Van Eyck, Van der Veyden, Bosch, Peter Breugel and Matthias Grunewald.

*For Fine Arts majors or with permission of instructor*  
3 semester hours



## **Metalwork, Ceramics, Weaving**

### **1090-526 (24-526) Advanced Metalwork and Jewelry I**

Experiences in this sequence involve designing of jewelry and small sculpture in varied metals employing the techniques of flat sheet metal and casting.

*Prerequisites and permission of instructor*

*2 semester hours*

### **1080-526 (24-526) Advanced Metalwork and Jewelry II**

*Prerequisites and permission of instructor*

*2 semester hours*

### **1090-531 (24-531) Advanced Ceramics: Pottery and Sculpture I**

Experimentation with the potter's wheel, various handbuilding methods of forming and further experimentation with clay compositions, glazes and methods of firing. Advanced students will be held responsible for developing a consummate craftsmanship and a personal idiom.

*Prerequisites:* Undergraduate experience in ceramics, portfolio and instructor's approval.

*2 semester hours*

### **1090-532 (24-532) Advanced Ceramics: Pottery and Sculpture II**

*Prerequisite:* Same as above

*2 semester hours*

### **1090-533 (24-533) Advanced Ceramics: Pottery and Sculpture III**

*Prerequisite:* Same as above

*2 semester hours*

### **1090-534 (24-534) Advanced Ceramics: Pottery and Sculpture IV**

*Prerequisite:* Same as above

*2 semester hours*

### **1090-541 (24-541) Advanced Weaving I**

Primary emphasis on designing with simple and four harness table and floor looms. A variety of techniques and materials.

*Prerequisites and permission of instructor*

*2 semester hours*

### **1090-542 (24-542) Advanced Weaving II**

*Prerequisites and permission of instructor*

*2 semester hours*

### **1090-543 (24-543) Advanced Decoration of Fabrics I**

Major emphasis is on designing of the fabric through block printing, silk screen printing, stitchery, hooking, applique dyeing techniques and knitting, crochet and knotting processes.

*Prerequisites and permission of instructor*

*2 semester hours*

### **1090-544 (24-544) Advanced Decoration of Fabrics II**

Description as above

*Prerequisites and permission of instructor*

*2 semester hours*

**1001-620 (24-620) Field Course in Art I**

Travel courses to art sources in the United States and foreign countries will be accepted for graduate credit not to exceed 6 points. Content and requirements will be set up as the courses evolve. Provides the opportunity to have a first-hand contact with the historic art forms of the places visited and see contemporary artists and craftsmen in the process of creating art forms. Each student will select an area of study in which the places visited have rich art resources. As preparation for the course the student will outline his chosen study problem, read background material and list sources he expects to utilize.

*2-6 semester hours*

**1001-621 (24-621) Field Course in Art II**

*2-6 semester hours*

## FRENCH

**1102-505 (41-505) History of the French Language**

Structures of modern French as outcome of linguistic and cultural processes over 2,000 years.

*3 semester hours*

**1102-603 (41-603) Research Seminar**

Opportunity to apply research techniques on a specific topic of the student's choice.

*2 semester hours*

**1102-506 (41-506) Advanced French Phonetics**

Principles of general and experimental phonetics. Previous knowledge of phonetics desirable.

*3 semester hours*

**1102-511 (41-511) Medieval French Literature**

French literature from Ninth through Fifteenth Centuries, emphasizing the "Chanson de Geste" and the "Roman Courtois."

*3 semester hours*

**1102-513 (41-513) Medieval Theater**

Origins and development of theater in France during the Middle Ages.

*3 semester hours*

**1102-516 (41-516) Rabelais and Montaigne**

Humanistic ideals as reflected in the works of Rabelais and Montaigne.

*3 semester hours*

**1102-517 (41-517) Poetry of the Renaissance**

Major works of Marot, Ronsard, du Bellay and other poets of the Pleiade.

*3 semester hours*

**1102-525 (41-525) Moralists of the Seventeenth Century**

Representative work of La Rochefoucauld, Mme. de Sevigne, Saint Simon and La Bruyere.

*3 semester hours*

**1102-526 (41-526) Corneille, Racine and Moliere**

Dramatic art as reflected in representative plays of the three authors.

*3 semester hours*

**1102-527 (41-527) Pascal and Descartes**

Their philosophical concepts and their impact on French literature.

*3 semester hours*

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### **1102-530 (41-503) Montesquieu and Voltaire**

Representative works of Montesquieu and Voltaire in the light of the Eighteenth Century concept of the "philosophe."

*3 semester hours*

### **1102-531 (41-531) Rousseau and the Precursors of Romanticism**

Major literary and educational ideas of the period in relation to later Romanticism.

*3 semester hours*

### **1102-532 (41-532) French Theater of the Eighteenth Century**

Analysis of the major plays of Voltaire, Lesage, Marivaux and Beaumarchais.

*3 semester hours*

### **1503-536 (41-536) The Romantic Movement**

Comparative approach to the study of romanticism in England, Germany and France. (Taught in English. Recommended to French majors as an elective.)

*3 semester hours*

### **1102-537 (41-537) Nineteenth Century French Theater**

Hugo's dramatic theories and their application in representative plays.

*3 semester hours*

### **1102-538 (41-538) French Novel of the Nineteenth Century, I**

Insight into major works of Hugo, Balzac and Stendhal. (Two semester course.)

*3 semester hours*

### **1102-539 (41-538) French Novel of the Nineteenth Century, II**

Insight into major works of Flaubert and Zola. (Two-semester course.)

*3 semester hours*

### **1102-540 (41-539) Nineteenth Century French Poetry**

Development of French poetry from Romanticism to Symbolism.

*3 semester hours*

### **1102-542 (41-542) Twentieth Century Theater**

Major modern currents and trends in drama.

*3 semester hours*

### **1102-543 (41-543) Twentieth Century Poets**

Within a general developmental context, emphasis upon thematic and structural analysis of work of Apollinaire, Reverdy, Char, Eluard and Bonnefoy.

*3 semester hours*

### **1102-544 (41-544) Twentieth Century Novel I**

Evolution of the French novel: Proust, Gide and Mauriac.

*3 semester hours*

### **1102-545 (41-544) Twentieth Century Novel II**

Literature engagee: Malraux, Sartre and Camus.

*3 semester hours*

### **1102-546 (41-546) Contemporary Novel**

Directions of the French novel from the "nouveau roman" to the structuralist novel.

*3 semester hours*

The following courses are offered as remedial work for students requiring supplementary language preparation. These courses carry no graduate credit. Course descriptions may be found in the current undergraduate *Bulletin*.

**1104-410 (41-410) Advanced Composition**

**1104-414 (41-414) French Language Workshop**

## GEOGRAPHY

The Geography Department offers graduate course work leading to a concentration in Geography as part of the requirements for a Master of Arts in Social Sciences.

Candidates for the Master of Arts in Social Science with a concentration in Geography must meet the following minimum requirements: 1) the degree requirements and recommended courses for the Bachelor of Arts in Geography at Montclair State College or equivalent, 2) twelve semester hours in Geography at the 500 and 600 level (approval of 400 level courses for graduate credit from the Chairman of the Geography Department is required) and 3) a comprehensive examination in Geography. For those students who elect to write a master's thesis, four credits are granted and the requirement for a comprehensive examination is waived. For those students not writing a thesis Geography 2206-504 — Seminar in Geography—is required to ensure scholarly writing on a subject of independent research.

Demonstration of competence in a foreign language, mathematical techniques or cartographic techniques may be required depending upon the student's field or area of interest.

### **2206-501 (93-501) Advanced Physical Geography**

Pro-seminar in topics emphasizing concepts, processes and models relative to the physical bases of geography. Topics vary from year to year. Quantitative approaches and current methodology research.

3 semester hours

### **2206-502 (93-502) Advanced Economic Geography**

Research course examines spatial pattern of economic elements. Stress on current methodology research. Selected topics vary.

3 semester hours

### **2206-503 (93-503) Advanced Cultural Geography**

Seminar approach investigates man's role in changing the face of the earth, emphasizing spatial perception, diffusion processes and cultural attitudes toward space.

3 semester hours

### **2206-504 (93-504) Seminar in Geography**

Seminar to ensure scholarly writing on a geographic subject of independent research.

3 semester hours

The following Senior-Graduate courses in Geography may be elected with special permission of the graduate advisor. (Course descriptions may be found in the current undergraduate *Bulletin*.)

	<i>semester hours</i>
2206-402 Hydroclimatology .....	3
2206-404 Geo-Ecology .....	3
2206-408 Political Geography .....	3
2206-410 Urban Geography .....	3
2206-412 Geography of Africa .....	3



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2206-413	The Middle East .....	3
2206-422	Population and Settlement Patterns in Africa .....	3
2206-426	Independent Study in Geography .....	3
2206-427	Pro-Seminar in Geography .....	3

## GEOSCIENCE

Note: Course numbers in this department designed with the prefix 1914 were formerly listed with the prefix 84

### **1914-502 Advanced Physical Geology**

Physical geology, rock forming and erosion processes, earthquakes, interior of the earth, island arcs, mountain building, paleomagnetism, continental drift and sea floor spreading. Field Trips.

*Prerequisite:* Physical Geology.

*4 semester hours (2 hours lecture, 4 hours laboratory)*

### **1914-504 Advanced Historical Geology**

Geologic history, stratigraphy and paleoenvironments as interpreted through lithologic and paleontologic evidence. Field trips.

*Prerequisite:* Stratigraphy.

*3 semester hours (3 hours lecture)*

### **1914-506 Advanced Invertebrate Paleontology**

Fossil invertebrates with emphasis on evolutionary, paleoecologic, and stratigraphic significance. Laboratory and field work stresses collecting, preparation, identification and curatorial techniques. Field trips.

*Prerequisites:* Invertebrate paleontology or permission of the instructor.

*4 semester hours (1 lecture, 6 hours laboratory)*

### **1914-512 Paleoecology**

Principles of paleoecology with the distribution and association of fossils as interpreted from the evidence presented in geologic record. Detailed paleoecological field study made of selected sites.

*Prerequisites:* College Biology or Invertebrate paleontology or the permission of the instructor.

*3 semester hours (3 hours lecture)*

### **1914-517 Geophysics**

Theory and application of conventional geophysical methods: seismology, magnetism, electricity and gravity. Laboratory includes collection and interpretation of geophysical data. Field trips.

*Prerequisites:* Physical geology and college physics.

*3 semester hours (3 hours lecture)*

### **1914-521 Optical Mineralogy**

Theory, practice and use of polarizing microscope to identify minerals. Theory of light transmission in minerals will be considered. Required field trips.

*Prerequisite:* Mineralogy.

*4 semester hours (2 hours lecture, 4 hours laboratory)*

### **1914-540 Geochemistry**

Chemical laws and principles applied to the Earth, its chemical composition, distribution and relative abundance of elements. Use of isotopes in geology and the application o

chemical principles in geologic processes. Study of meteorites included. Required field trips.

*Prerequisites:* General Chemistry and Mineralogy.

3 semester hours (3 hours lecture)

### 1914-650 Thesis

Student field, laboratory and library investigation in depth of a problem in area of geoscience. Results to be presented in oral and written form culminating in thesis. Class discussion of individual papers.

*Prerequisites:* Methods and Instruments of Research in Geoscience and candidacy for the Master of Arts degree in Geoscience.

4 semester hours (Offered upon demand)

The following Senior-Graduate Courses in Geoscience may be elected with the special permission of the graduate advisor.

Course description may be found in the current undergraduate *Bulletin*.

	<i>semester hours</i>
1914-403 Meteorology .....	4
1914-406 Invertebrate Paleontology .....	4
1914-410 Stratigraphy .....	3
1914-412 Mineralogy .....	4
1914-414 Petrology .....	4
1914-416 Structural Geology .....	3
1914-420 Geology of New Jersey .....	3
1914-428 Introduction to Oceanography .....	4
1914-430 Physical Oceanography .....	3
1914-433 Littoral Geologic Processes .....	4
1914-434 Independent Study in Marine Sciences .....	by arrangement
1914-446 Sedimentology .....	3
1914-451 Field Studies in Geoscience .....	4

At present the department offers graduate Physics courses to update and enhance the background of the high school or junior college physics teachers. These courses may also be taken by students matriculated in other sciences desiring an interdisciplinary program with special permission of the graduate advisor.

	<i>semester hours</i>
1902-501 Teaching of Physics .....	3
1902-506 Astrophysics .....	3
1902-512 Modern Physics .....	3
1902-513 Nuclear Radiation .....	2
1902-515 Fields and Waves .....	3
1902-520A,B	

Selected Topics in Physics I-II ..... (each) 2

The following Senior-Graduate courses in Physics may also be elected with the special permission of the graduate advisor. (All courses listed are not necessarily offered every year.)

Descriptions of the following courses will be found in the current undergraduate *bulletin*.

	<i>semester hours</i>
1902-405 Optics .....	4
1902-406 Astronomy .....	4
1902-409 Electronics .....	4
1902-415 Introduction to Modern Physics .....	4

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1902-417	Nuclear Physics .....	4
1902-420	Thermodynamics .....	3
1902-430	Mathematical Physics .....	3
1902-431	Theoretical Physics I Advanced Mechanics .....	3
1902-432	Theoretical Physics II Advanced Electricity and Magnetism .....	3
1902-433	Quantum Mechanics .....	3
1902-441	Solid State Physics .....	3
1902-450	Literature Research in Physics .....	2
1902-451	Physics Independent Study .....	by arrangement

## HEALTH EDUCATION

### **0837-500 (73-500) Health Aspects of Family Living**

Problems of growth and development, reproduction, heredity and social and emotional aspects of sexual development. Role of family in today's society and problems of family relations.

*Prerequisite:* A basic course in health education.

*2 semester hours*

### **0836-501 (73-501) Selected Developments in Safety**

Special emphasis on the role of schools in promoting safe environment. Presentation of pertinent safety information. Includes limited opportunities for development of more effective teaching methods in safety education. Topics include major safety problems: protection from fire and disaster, vocational safety, traffic and pedestrian safety, safety in recreation and physical education, sports safety, and administration of safety programs in schools.

*Prerequisite:* A basic course in safety or the equivalent.

*3 semester hours*

### **0836-502 (73-501) Safety: Man and his Environment**

Broad scope and comprehensive understanding of selected aspects of safety and environment. Safety problems and related health considerations within a framework of changing environmental conditions. Special emphasis given to air, water, and industrial pollution, and the increasingly serious impact of an expanding population. Additional safety topics selected by individual students.

*Prerequisite:* A basic course in safety or permission of the instructor.

*3 semester hours*

### **0837-512 (73-412) Alcohol Education Workshop**

Materials, techniques and attitudes which are pertinent in the development of effective programs of alcohol education. Physiological, psychological, sociological, legal, economic, religious, health, safety and other relevant factors.

*Prerequisite:* Addictions and Dependency (0837-301), or permission of advisor.

*3 semester hours*

### **0837-513 (73-513) Drug Abuse Seminar**

Advanced study in selected aspects of the drug scene. Consideration of recent pharmacological, legal, societal and rehabilitative developments. Interest in or involvement with school and community drug abuse programs is an important criterion for participation. Content areas and direction of course will be determined by participants with special emphasis given to the development of a project of individual or group significance.

*Prerequisite:* The Drug Abuse Problem (0837-413) or permission of advisor.

*3 semester hours*

**0837-514 (73-414) Venereal Disease Education**

Workshop experience offering study of pathology, epidemiology, treatment and prevention of venereal disease. Special emphasis on legal aspects of disease, including the federal, state, and local developments related to detection, treatment and prevention. Educational programs and responsibilities will be primary considerations.

*Prerequisite:* A basic course in health education or permission of advisor.

3 semester hours

**0837-516 (73-516) Selected Developments in Community Health**

Comprehensive study of health problems and their relation to various community institutions and organizations, official and voluntary, which deal with these conditions. Special attention given to structure, function and effectiveness of local as well as state, federal, and international bodies treating air and water pollution, improving communicable disease protection, providing better mental health services, improving waste disposal and sanitation. Additional community health problems will be included on the basis of group interest and applicability.

*Prerequisite:* A basic course in community health or permission of the advisor.

3 semester hours

**0837-525 (73-525) History and Foundations of Health**

Study, interpretation and analysis of historical background and current perspectives in health and health education. History of health, including medical developments, traced from its earliest beginning through ancient civilization to present times. Includes an interpretation of development of health education in the schools. Emphasis on relationship between scientific advancements and prevailing educational philosophy.

3 semester hours

**0837-526 (73-526) Curriculum Development in Health Education**

Development of understandings and insights into nature and construction of comprehensive health education curriculum. All aspects of school health education curriculum are included and presented through various means. Review and interpretation of appropriate teaching methods, materials and evaluation procedures.

*Prerequisites:* A basic course in health education; a basic course in teaching methods in health education.

3 semester hours

**0837-528 (73-528) Evaluation in Health**

Intensive study of measurement and evaluation processes. Basic statistical methods considered in relation to various instruments designed to evaluate behavior, knowledge and attitudes. Special attention given to the function of the teacher in this process. Consideration given to interpretive and administrative factors involved in evaluation process.

*Prerequisite:* A basic course in tests and measurement or a basic course in statistics.

3 semester hours

**0837-530 (73-529) Seminar in Basic Issues in Health**

Opportunity to pursue carefully selected health issues of personal and group interest. Problem areas are identified, interpreted and critically analyzed for development of insight and understanding of the basic issues. Each area of study planned and developed through individual and group discussion.

3 semester hours

**0837-531 (73-450) Independent Study in Health**

An independent research project or practical work experience in the field of health. Project or work experience conducted under supervision of a department faculty member. Announcement of semester hour credit is made by the department chairman fol-



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lowing consultation with the student and a faculty committee whose responsibility it is to determine credit value of each assignment.

2-4 semester hours

### **0837-603 (73-603) Research Seminar in Health Education**

Provides opportunities and direction for the development of an original research project in health education. Each student is required to conduct an investigation of a carefully selected problem and complete a written research document which must be presented to the faculty of the Department of Health Professions. Conducted during two semesters of the academic year with specially scheduled class meetings and individual conferences.

*Prerequisites:* Evaluation in Health (0837-528) and Methods of Research (0824-503).

3 semester hours

The following Senior-Graduate courses may be elected with approval of the graduate advisor:

Course description may be found in the current undergraduate *Bulletin*.

	<i>semester hours</i>
*0836-408 Driver Education .....	3
*0836-409 Driver Education—Advanced .....	3
0837-411 School Health Program .....	2
0837-413 Drug Abuse Problems .....	2

## **HISTORY**

Candidates in Social Sciences with a concentration in History select 12 semester hours in 500 level courses. Free electives may be used for additional study in History; a minimum of 6 semester hours of work is required in the Social and/or Behavioral Sciences as noted in the requirements for the M.A. Degree in Social Sciences.

### **2205-511 (94-511) Seminar in American Colonial History**

Seminar examines forces and conditions of the colonial period which contributed to the shaping of American political and economic institutions, social practices and ideals, intellectual outlooks and attitudes toward Europe.

*Prerequisite:* Open only to History candidates or students with Social Studies certification, or permission of instructor.

3 semester hours

### **2205-512 (94-512) The American Revolution, 1763-1787**

Intensive study of the causes and courses of the American Revolution from both the the American and British viewpoints, including analysis of economic, political, social and intellectual factors.

3 semester hours

### **2205-513 (94-513) Problems of the New Nation, 1789-1828**

Growth of political institutions under the Constitution, gaining of respect as a new country in the family of nations, establishment of economic credit and rise of American nationalism.

3 semester hours

### **2205-517 (94-517) Age of Franklin D. Roosevelt**

The events of 1933-45 represent a culmination of a generation's ideas, aspirations and experience. While concentrating on the domestic aspects of American life, some attention is given to foreign affairs and their impact on the daily lives of Americans.

\*No credit awarded in Health Education Advanced Degree program.

*Prerequisite:* Open only to History candidates or students with Social Studies certification, or permission of instructor.

3 semester hours

**2205-519 (94-519) The United States in the Nuclear Age**

The United States in world affairs during the period from 1939 to the present. While the course concentrates on the international aspects of American life, the impact of domestic affairs on foreign policy is not neglected.

*Prerequisite:* Open only to History candidates or students with Social Studies certification, or permission of instructor.

3 semester hours

**2205-520 (94-520) United States—Far Eastern Relations**

Focus on topics in U.S. relations with China and Japan, 1942 to the present. Particular attention on the men who formulated and implemented U.S. Policy.

3 semester hours

**2205-525 (94-523) History of Soviet Diplomacy**

Institutional apparatus of the Soviet system. Role of the Communist Party and its relation to other political and economic forces within the country and the special functions performed by such agencies as the press, schools and agricultural collective.

3 semester hours

**2205-527 (94-527) The Industrialization of Europe**

Analysis of European economic development with major attention to the period since 1750. Comparison of economic growth during the 19th and 20th centuries in Britain, France, Germany, Italy and Russia.

3 semester hours

**2205-529 (94-529) Europe of the Dictators, 1919-1939**

Political, social, economic and intellectual developments in the major states of western Europe during 1919-39, with emphasis on varieties of fascism of the inter-war period. Diplomatic origins of World War II also investigated.

3 semester hours

**2205-530 (94-530) Nationalism in Modern India**

Cultural and political history of India from 1800 to the present, with focus on the contributions of Hindu nationalism and British liberalism to the Indian independent movement and the post-1947 democratic experiment.

3 semester hours

**2205-533 (94-533) French Revolution and Napoleon**

Analysis of the background of the French Revolution, its changing course and cast of characters during 1789-99, and the advent to power and imperial regime of Napoleon Bonaparte, 1799-1814. Expansion of the Revolution and its significance for Europe.

*Prerequisite:* Open only to History candidates or students with Social Studies certification, or permission of the instructor.

3 semester hours

**2205-534 (94-534) France of the Republics**

Development of modern France from 1870 to the present. Political, social, economic and intellectual conditions and trends through the Third, Fourth and Fifth Republics.

3 semester hours

**2205-537 (94-537) 19th Century European Intellectual History**

Romantic, utilitarian, conservative, liberal and early existential streams of thought in

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19th century Europe. Impact of these intellectual movements on European society.

*Prerequisite:* Open only to History candidates or students with Social Studies certification, or permission of instructor.

3 semester hours

### **2205-538 (94-538) Britain in the Twentieth Century**

Major problems—economic, social, political and international—which have confronted Britain in the 20th century. Policies of Conservative and Labor governments since 1919 examined and compared.

3 semester hours

### **2205-501 (94-601) New Interpretations in History**

Designed to help teachers keep up to date in the special fields of American, European and Non-Western history. Examines important trends and developments in the study and teaching of history in the light of recent representative examples of historical research and interpretation.

*Prerequisite:* Open only to History candidates or students with Social Studies certification, or permission of instructor.

3 semester hours

### **2205-502 (94-602) History and the New Social Studies**

Acquiring a comprehensive view of modern materials, methods and curricula in history and the social sciences. Critical evaluation will be aimed at their implications for school programs and actual use. Relationship to new societal problems will also be explored.

*Prerequisite:* Open only to students with Social Studies certification, or permission of the instructor.

3 semester hours

The following Senior-Graduate courses in History may be elected with special permission of the graduate advisor. Course descriptions may be found in the current undergraduate *Bulletin*.

	<i>semester hours</i>
2205-412 The Literature of American History .....	3
2205-413 The Philosophy of History .....	3
2205-424 Diplomatic History of Europe .....	3
2205-430 Modern Japanese History .....	3
2205-431 The Evolution of the Hindu World View .....	3
2205-435 The Emergence of Modern America, 1820-1876 .....	3
2205-461 Ethnohistory: Interdisciplinary Approaches (See 2202-461) .....	3

## HOME ECONOMICS

Note: Course numbers in this department designated with the prefix 1301 were previously listed with the prefix 26.

### **1301-500 Contemporary Issues in Home Economics**

Seminar dealing with timely issues in home economics. Special emphasis on changes in society which affect the family. Attention centered on problems of continuing concern.

2 semester hours

### **1301-501 Seminar in Home Economics Education**

Philosophies and programs in all areas of Home Economics Education relevant to con-

temporary problems. Implementation of innovative programs at all levels of education emphasized.

3 semester hours

**1301-503 Program Development in Family Life Education**

Systematic analysis of development of family living programs in public schools and other agencies. Appraisal of current problems, practices and trends. Opportunity to design and plan the implementation of innovative programs in the field.

3 semester hours

**1301-505 Behavior Modification in Home Economics Programs**

Skills to develop rapport in the teaching-learning context. The effect these skills have in determining the quality and degree of attainment of home economics objectives.

*Prerequisite:* Prior teaching or student teaching experience

3 semester hours

**1301-506 Supervision of Home Economics**

Curricula, current trends, facilities, professional literature and evaluation techniques. Competencies for the role of supervisor analyzed. Provides elective credits toward Supervisor's Certificate.

*Prerequisite:* Classroom teaching experience.

3 semester hours

**1301-509 Research Seminar**

Library or experimental research on specific problems of limited scope. Work may be taken in the following areas: child and family, family and consumption economics, family housing, foods, nutrition or textiles and clothing.

*Prerequisite:* Methods of Research (0824-503)

3 semester hours

**1301-514 Child in the Family**

Theories and research related to child rearing technique. Critical analysis of factors influencing parental practices and their effects on the child.

3 semester hours

**1301-520 Clothing and Human Behavior**

Analysis of factors affecting appearance and satisfaction in clothing. Economic, sociological and psychological aspects of clothing in relation to the individual.

3 semester hours

**1301-530 Consumer Behavior**

Investigation of family consumer behavior as affected by individual perception, motivation and personality, family organization, social class, subcultures and economic conditions of the nation. Models of consumer behavior evaluated.

3 semester hours

**1301-531 Family Financial Problems**

Study of families with financial concerns and crises. Emphasis on effective use of money to meet families' life styles and alleviate problem areas.

3 semester hours

**1301-532 Family and Consumer Economics**

Study of families and consumers from economic perspectives in society. Emphasis on broad implications of economic practices and policies for various groups of families as they function in the marketplace.

3 semester hours



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### **1301-535 Consumer and Family Law**

Laws and policies of institutions which affect family functions, relationships and welfare.  
3 semester hours

### **1301-540 Interdisciplinary Study of the Family**

Contributions various academic disciplines (history, anthropology, biology, economics, as well as psychology and sociology) make towards a more comprehensive understanding of family life.

3 semester hours

### **1301-542 Dynamics of Family Interaction**

Critical review of concepts and theories, both psychological and sociological, currently used in understanding patterns and problems of family relationships.

3 semester hours

### **1301-544 Intercultural Study of the Family**

Analytical study of cross cultural regularities and differentials in family structures. Functions and impact of social change on family values and patterns. Varied conceptual approaches to the study of family as well as a broad acquaintance with empirical studies and research.

3 semester hours

### **1301-560 Housing the Family**

Analysis of location, structure, design, furnishings and equipment as a setting for the physical and emotional development of the individual and the family.

3 semester hours

### **1301-570 The Management of Family Resources**

Family as a decision-making unit. Directing its resources for more effective living. Philosophical, psychological, sociological and economic trends which have a direct influence on family's ability to maximize its resource potential and utilization.

3 semester hours

### **1301-571 Problem Solving in Family Counseling**

Counseling families in problem-solving on resource use, including the resources of time, energy, attitudes and material and non-material goods and services.

3 semester hours

### **1301-572 Management Seminar**

Application of personal management concepts to one's professional role with the goal of developing more effective ways of handling professional situations and responsibilities.

3 semester hours

### **1301-580 New Findings in Nutrition**

Recent developments in nutrition and review of fundamentals.

3 semester hours

The following Senior-Graduate courses are available as electives with special permission of the graduate advisor. Course descriptions may be found in the current undergraduate Bulletin.

	semester hours
1301-403 Consumer Education Techniques .....	2
1301-404 Evaluation in Home Economics .....	3
1301-405 Home Economics in the Middle School .....	3
1301-408 Workshop in Home Economics .....	2
1301-445 The Inner City Family .....	3

## HUMAN ORGANIZATIONAL PROCESSES

The functions of this program include the provision of graduate courses in the dynamics of working groups, the on-going leadership of Montclair Human Relations Laboratory and the provision of consultation services in group leadership and communications for organizations on and off-campus.

An interdisciplinary graduate program in Organizational Development and Student Personnel Services leading to the Master's degree is being planned for 1972/1973.

### **0842-564 (35-564) Dynamics of Group Process**

A laboratory-based course for the development of group skills and understandings. Focus is on experimental learning and personal growth. Readings in human interaction theory will be related to actual group participation. The function of groups within large organizations will be studied.

*3 semester hours*

### **0842-565 (35-565) Consultation in Organizational Development**

A laboratory-based course which focuses on the role of the organizational consultant. Emphasis on planning, providing help and evaluating activities. Diagnostic and behavioral skills to aid individuals and groups within organizations will be developed. Designed for those considering consultation work in business, industry, government, penology, education and community organizations.

*Prerequisite:* Dynamics of Group Process (0842-564) or permission of the instructor

*3 semester hours*

### **0842-566 (35-566) Field Work in Group Leadership**

On-the-job training for group workers to sharpen diagnostic and behavioral skills. Students will join an on-going task centered group either as a member or its leader and will make a problem diagnosis, a procedural plan and a method of evaluation. In-progress and final reports will be discussed.

*3 semester hours*

### **0842-567 (35-567) Research Seminar in Group Processes**

Students will develop, carry out and evaluate a research project in small group processes. Students will work singly or in groups to investigate the application of group work to their major fields of interest.

*Prerequisites:* Dynamics of Group Process (0842-564); Consultation in Organizational Development :0842-565); and Methods of Research (0824-503)

*3 semester hours*

### **0842-568 (35-568) Theoretical Constructs in Social Group Interaction**

Problems and current practices in the areas of small group interaction, social restructuring and cultural encounter. Survey of literature to develop an awareness of the influence of interaction on small group behaviors, learning theories, leadership, decision making, social reconstruction, value conflict and perception of self and others.

*3 semester hours*

### **0842-661 (35-661) Group Development Laboratory I**

### **0842-662 (35-662) Group Development Laboratory II**

Seminar experience as a core for advanced study in organizational leadership. Group participation and periodic opportunities to examine the problems of a group and the effects of individual behaviors in group development. Methods of applying this experience to the improvement of communication in client organizations. (Must be taken in two consecutive semesters.)

*3 semester hours each*

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The following 400 level Senior-Graduate courses are available as electives with special permission of the graduate advisor. Course descriptions may be found in the current undergraduate *Bulletin*.

	<i>semester hours</i>
0842-430 (35-430) Interaction Analysis .....	3
0842-431 (35-431) Individual and Group Dynamics .....	3

## INDUSTRIAL EDUCATION AND TECHNOLOGY

### **0996-0501 (28-503) Historical and Contemporary Industrial Education Literature**

Published material related to industrial education surveyed to determine applicability to laboratory teaching and professional improvement. Historical writings on the development of industry and industrial education, research literature in the field, published materials provided by corporations and government agencies and pertinent reference works, handbooks and periodicals.

*3 semester hours*

### **0996-0502 (28-501) Curriculum Construction & Course Organization in Industrial Education**

Techniques are studied with emphasis on development of industrial education courses of study and instructional materials.

*3 semester hours*

### **0996-0505 (28-504) Supervision of Industrial Education**

Principles and practices of supervision are discussed and evaluated in relation to supervisory techniques, budget supplies, inventories, maintenance, safety and upgrading of in-service teachers.

*3 semester hours*

### **0996-0509 (28-502) Industrial Education Facilities Planning**

Planning and equipment selection include the practical application of architectural aspects, floor plan layouts, equipment selection and bid preparations.

*3 semester hours*

### **0996-0606 (28-604) Independent Study in Industrial Education I, II or III**

Designed to allow graduate students to pursue advanced individual study on problems beyond what is accomplishable inside the graduate classroom. Credit may be obtained for an approved industrial course or seminar related to the student's special area of interest. May be taken three times, with the graduate advisor's approval, providing each problem is different or in more depth.

*Prerequisite:* Application through Department office prior to registration 34-503.

*1-3 semester hours*

### **0996-0607 (28-603) Research Seminar in Industrial Education**

Research problems and techniques as related to industrial materials, processes and products are used as a basis for developing industrial research reports.

*Prerequisite:* 34-503.

*3 semester hours*

### **0997-0501 (28-507) Principles & Philosophy of Cooperative Industrial Education**

Principles, philosophy and content of cooperative industrial education programs. Historic, cultural, social, governmental, economic and technical forces which affect development of cooperative industrial education programs.

*2 semester hours*



**0997-0502 (28-509) Curriculum Construction in Cooperative Industrial Education**

Cooperative industrial education curriculum construction techniques designed to meet needs of related and laboratory teaching, and school work programs. Emphasis placed on curriculum materials especially adapted to needs of part-time cooperative trade occupational programs.

3 semester hours

**0997-0503 (28-508) Problems in Organizing & Teaching Cooperative Industrial Education Programs**

Various practices for coordinating high school programs with needs of local industry. Emphasis placed on supervisory responsibilities within the school and cooperation required with public and private agencies.

2 semester hours

**36-582 Vocational Guidance and Occupational Information**

See interdisciplinary course description under Student Personnel Services.

3 semester hours

The following Senior-Graduate courses may be elected with the special permission of the graduate advisor.

Course descriptions may be found in the current undergraduate *Bulletin*.

			semester hours
0990-0411	(28-411)	Design in Industry .....	3
0990-0421	(28-423)	Architectural Drafting-Residential .....	3
0990-0422	(28-424)	Engineering Graphics .....	3
0990-0423	(28-425)	Architectural Design & Engineering .....	3
0990-0431	(28-434)	Offset Lithography .....	3
0990-0432	(28-435)	Advanced Offset Lithography .....	3
0990-4333	(28-436)	Color Photography .....	3
0990-0434	(28-437)	Color Separation .....	3
0990-0441	(28-443)	Wood Technology .....	3
0990-0442	(28-446)	Residential Construction .....	3
0990-0451	(28-456)	Plastics Technology .....	3
0990-0461	(28-463)	Metal Technology .....	3
0990-0468	(28-466X)	Welding Technology .....	3
0990-0471	(28-473)	Electronic Circuit Applications .....	3
0990-0472	(28-474)	Industrial Electronic Circuits .....	3
0990-0473	(28-475)	Introduction to Logic Machines .....	3
0990-0481	(28-483)	Power Technology .....	3
0990-0482	(28-484)	Fluid Power .....	3
0990-0483	(28-485)	Fluidics .....	3
0990-0491	(28-491)	Construction Technology .....	3
0990-0492	(28-492)	Manufacturing Technology .....	3
0990-0408	(28-405)	Field Studies of Industry .....	3
0990-0409	(28-406)	Cooperative Industrial Work Exp. I, II or III .....	2

**INSTRUCTION AND CURRICULUM****0829-521 (31-521) Seminar: Theory in the Classroom**

Taken in conjunction with Professional Teaching Semester, Supervised Student Teaching I, Supervised Student Teaching or Internship in Teaching I. Analysis in a small group setting of student's initial teaching experience. Comparison of actual classroom situations with previous course work reveals ways in which the student can best apply theory to practice. Through sharing problems and solutions with other novices the student builds



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teaching competencies and confidence. Includes a professional improvement project.  
*Co-requisite:* Supervised Student Teaching (0829-411); In-Service Supervised Teaching (0829-411).

3 semester hours

### **0829-522 (31-522) Innovations in Teaching**

Study of new media and strategies, novel teaching roles, individualized instructional programs, classroom group dynamics and experimental school organizations. Team teaching utilized where feasible. Student prepares an innovation proposal.

*Prerequisite:* At least one year of teaching experience.

3 semester hours

### **0829-523 (31-523) Education in the Inner City**

Views of the urban school through the eyes of city youngsters, teachers and other educational personnel. Influences on the curriculum of such social and economic forces as poverty, family patterns, ghetto mores, urban unrest, emergent minority leadership, school funding patterns, community agencies and school traditions. Evaluation of federal and other projects, innovative teaching and local action. Student prepares proposal for improvement of an urban school situation.

3 semester hours

### **0829-530 (31-530) Principles of Curriculum Development**

Study of the curriculum as conceived by professionals and impact of supporting society on curriculum. Criteria for selecting content and its sequential development in relation to individual differences as they relate to the societal values in a dynamic society.

*Prerequisite:* At least one and one-half years of successful teaching experience under certification.

3 semester hours

### **0829-531 (31-531) Curriculum Construction in the Elementary School**

Review of basic curriculum development concepts; Process of curriculum construction in a modern elementary school and experience in creating an elementary school curriculum in a specific field for one or more grade levels.

*Prerequisite:* Principles of Curriculum Development (0829-530).

3 semester hours

### **0829-532 (31-532) Middle School Curriculum and Organization**

Emerging curriculum of the rapidly developing middle school. Organization of pupils, instruction, media and facilities. Influences of recent social changes and educational innovations. Opportunities to study practices in typical middle schools and develop instructional strategies.

*Prerequisite:* Principles of Curriculum Development (0829-530).

3 semester hours

### **0829-533 (31-533) Curriculum Construction in the Secondary School**

Secondary school curriculum and needs of a changing civilization. Effective means of curriculum construction.

*Prerequisite:* Principles of Curriculum Development (0829-530).

3 semester hours

### **0829-534 (31-516) Strategies for Curriculum Change**

Practical strategies for achievement of desired educational change in field settings. Principles and concepts relating to change from fields of sociology, social psychology, educational administration and curriculum, applied to education. Opportunity to develop change strategies for particular field settings.

**Prerequisite:** One and one-half years of successful teaching experience under certification.

*3 semester hours*

**0829-541 Sex Education in Schools and Agencies**

Philosophy and practice of teaching sex education in public and sectarian schools and other community agencies. Traditional and emerging programs. Printed matter and other sources examined for their relevancy to pupil needs. Manner of implementing the program and community concern. Student will prepare a curriculum guide consistent with his situation.

*3 semester hours*

**0829-542 (31-640) Workshop in Education: Psychology-Sex Education**

Workshop-lectures using eminent psychologists, health educators, religious leaders, sociologists, biologists, physicians and media specialists. Topics emphasized: sex education in the home, marriage and family relations, genetics, birth control, sex and religion, developmental psychology and the sex role, sex and the self-concept.

*3 semester hours*

**0829-605 (31-605) Practicum in Teaching**

Provides opportunity for the student to initiate and complete an independent study project within the fields of curriculum and instruction.

**Prerequisite:** Approval of advisor.

*5 semester hours*

**0829-635 (31-635) Research Seminar in Curriculum Construction**

Seminar designed for individual advanced work in curriculum construction. Admission is upon approval of the instructor.

**Prerequisites:** Principles of Curriculum Development (0829-530) and either Curriculum Construction in the Elementary School (0829-531), Middle School Curriculum and Organization (0829-532), or Curriculum Construction in the Secondary School (0829-533).

*3 semester hours*

**0829-641 (31-641) Perspectives in Human Sexuality**

Advanced workshop-lectures by eminent specialists on concepts of human sexuality. Lectures include abortion, 1972; human sexuality and the mentally retarded child; world population; myths and fallacies of human sexuality; the community and sex education; sexuality aberrations; touch and human sexual response; male and female sexual response; sexual problems of college students; the humanization of obstetrics; current research in sex and sex education.

**Prerequisite:** Sex Education in Schools and Agencies (0829-541) and Workshop in Education; Psychology-Sex Education (0829-542).

*3 semester hours*

## **SENIOR-GRADUATE TEACHER CERTIFICATION COURSES**

**0829-400 (31-400) Teacher, School and Society**

Overview of selected areas such as the school as a social and legal system, the nature and function of the teacher within the system and the student: his expectations and impact upon the system.

*3 semester hours*

**0829-410 (31-410) Field Experiences in Education**

Student will spend from 30 to 90 hours as teacher's assistant in a public school, perform-

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ing many of the functions of a teacher except direct class teaching. Work with individual students, small groups, prepare learning materials, score examinations, etc. Experiences may be in more than one school. One to three semester hours for each 30 hours. Three semester hour credit for this course will be granted for students enrolled in professional semester program.

*1-3 semester hours*

### **0829-411 (31-411) Supervised Student Teaching**

Ten weeks of supervised teaching in a public school in cooperation with a teacher, team or department appropriate to the student's teaching field, taken concurrently with Seminar: Theory in the Classroom. Visiting professor will observe the student in interaction with pupils and confer with the student and cooperating faculty.

*Prerequisite:* Teacher, School and Society (0829-400) and approval of advisor.

*Co-requisite:* Seminar: Theory in the Classroom: (0829-521).

*3 semester hours*

### **0829-412 (31-412) Field Work in Urban Education**

Field work program to provide supervised field experience in urban school setting, in addition to Supervised Teaching. Work will include special tutoring programs, street academics, summer school programs, as well as work in the school system during the regular school year. Students will be expected to participate in seminars or individual conferences and will be required to prepare a report on their experiences. Credit will be based on a minimum of 30 hours per semester field work for each semester hour of credit.

*1-4 semester hours*

### **0829-413 (31-413) Field Work in Community Agencies**

Field work program to provide guided experiences in relevant community agencies, both public and private, for prospective teachers. Provide a broad experience resulting in a general understanding of the objectives, scope and activities of one or more agencies in the fields related to education. Students will participate in seminars or individual conferences and will be required to prepare a report on their experiences. Credit will be based on a minimum of 30 hours per semester field work for each semester hour of credit.

*1-4 semester hours*

### **0829-414 (31-414) In-Service Supervised Teaching I**

For the employed teacher working under a substandard teaching certificate. Taken concurrently with Seminar: Theory in the Classroom. Arrangements between the college and the local superintendent of schools provide for joint supervision by school district and college personnel. Visiting professor will observe the student in interaction with pupils and confer with the student and his local supervisor.

*Prerequisites:* Teacher, School and Society (0829-400), approval of advisor and agreement with the Superintendent of Schools.

*Co-requisite:* Seminar: Theory in the Classroom (0829-521).

*4 semester hours*

### **0829-415 (31-415) In-Service Supervised Teaching II**

Continuation of In-Service Supervised Teaching I (0829-414) except that the co-requisite seminar is replaced by a series of special in-service conferences.

*Prerequisite:* In-Service Supervised Teaching I (0829-414).

*4 semester hours*

### **0829-416 (31-416) Professional Teaching Semester**

Twenty weeks of cooperative supervised teaching in a selected public school to provide

special training opportunities for a group of teachers-in-training. Taken concurrently with Seminar: Theory in the Classroom. Student becomes involved with the full instructional effort of the school. Resident professor will observe the student in interaction with pupils and confer with him and his faculty associates.

*Prerequisite:* Teacher, School and Society (0829-400) and approval of advisor.

*Co-requisite:* Seminar: Theory in the Classroom (0829-521).

8 semester hours

### **0829-417 (31-513) Internship in Teaching I**

Provided for the student who is employed as a teaching intern in a public school on a halftime (4 semester hours) or a fulltime (8 semester hours) basis for twenty weeks. Taken concurrently with Seminar: Theory in the Classroom. Clinical professor will observe the student in interaction with students and confer with him and his faculty supervisor. Since opportunities for internships are limited, preference will be given to students who entered the Teacher Education Program as Montclair State College undergraduates.

*Prerequisites:* Teacher, School and Society (0829-400) and approval of advisor and agreement with the local Superintendent of Schools.

*Co-requisite:* Seminar: Theory in the Classroom (0829-521).

4 or 8 semester hours

### **0829-418 Internship in Teaching II**

Continuation of Internship in Teaching I (0829-417) for students who intern halftime, except that the co-requisite seminar is replaced by a series of special in-service conferences.

*Prerequisite:* Internship in Teaching I (0829-417).

4 semester hours

## **MATHEMATICS**

### **1701-510-511 Workshop on Secondary School Mathematics I, II**

Increased insight into contemporary programs. Emphasis on mathematical principles and concepts, together with suggestions for implementation of new topics in revisions of junior and senior high school programs.

3 semester hours each

### **1701-520 Set Theory**

Historical development, paradoxes, ordered sets, Schroder-Bernstein theorem, axiom of choice, transfinite induction, cardinal and ordinal numbers.

*Prerequisite:* 1701-222

3 semester hours

### **1701-521-522 Real Variables I, II**

Real number system, Lebesgue measure and integration, differentiation, Fourier series, LP spaces, Metric spaces, Normed vector spaces, Banach spaces and Hilbert spaces.

*Prerequisite:* 1701-425 or equivalent

3 semester hours each

### **1701-525-526 Complex Variables I, II**

Integration and differentiation in the complex domain, Cauchy's theorem, Cauchy integral formula, Laurent expansion, residues, elements of conformal mapping. Series and product representations.

*Prerequisite:* 1701-425 or equivalent

3 semester hours each



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### **1701-531-532 Abstract Algebra I, II**

Basic algebraic structures including field theory, Galois theory, ideals, modules, lattices and groups.

*Prerequisite:* 1701-431 or equivalent

*3 semester hours each*

### **1701-535-536 Linear Algebra I, II**

Vector spaces and linear transformations, including inner product, matrix representations, binary and quadratic forms, eigenvalues and eigenvectors, canonical forms and functions of matrices.

*Prerequisite:* 1701-335 or equivalent

*3 semester hours each*

### **1701-537 Mathematical Logic**

Topics include: sentence calculus, quantification theory, Godel's completeness theorems and decidability.

*Prerequisite:* 1701-436 or equivalent

*3 semester hours*

### **1701-540 Probability**

Sample spaces and events, axioms of probability, combinatorial analysis, conditional probability and stochastic independence, Bernoulli trials, random variables and probability distributions, expected value and variance, probability generating functions.

*Prerequisite:* 1701-340 or equivalent

*3 semester hours*

### **1701-542 Introduction to Stochastic Processes**

Generating functions, convolutions, recurrent events, random walk models, gambler's ruin problems, Markov chains and processes, time dependent stochastic processes, queuing theory and epidemic models.

*Prerequisite:* 1701-540

*3 semester hours*

### **1701-543 Statistical Distribution Theory**

Review of probability functions and random variables, univariate and multivariate distributions, marginal and conditional distributions, expectations. The binomial, negative binomial, poisson, normal, beta, gamma and chi-square distributions. Sampling theory and 't' and 'F' distributions.

*Prerequisites:* 1701-425 and 443

*3 semester hours*

### **1701-544 Statistical Inference**

Point estimation of one parameter, sufficiency and completeness, maximum likelihood estimation and interval estimation, testing hypothesis, sequential analysis, chi-square tests; analysis of variance.

*Prerequisite:* 50-543

*3 semester hours*

### **1701-545 Multivariate Analysis**

Statistical procedures for the multivariate normal distribution. Parameter estimation and derived distributions, Hotelling's T statistic, multivariate linear hypothesis, principal component analysis.

*Prerequisite:* 1701-544, Recommended: 1701-535

*3 semester hours*

**1701-546 Non-Parametric Statistics**

Selected distribution-free tests and estimation techniques including sign, Kolmogorov-Smirnov, Wilcoxon signed rank, Mann-Whitney, Chi-square, rank correlation, Kendall's tau, normal scores, Fisher-Yates test and others.

*Prerequisite:* 50-443 or 50-444 or equivalent

3 semester hours

**1701-547 Design and Analysis of Experiments**

Fundamental principles of design, completely randomized experiments, randomized block, Latin Squares, Graeco-Latin squares: split-plot design; factorial experiments; confounding; fractional replication; experimental and sampling errors.

*Prerequisite:* 1701-443 or 444 or equivalent

3 semester hours

**1701-549 Sampling Techniques**

Sampling and survey methodology, basic sampling theory, simple and stratified random sampling, systematic sampling, area sampling. Sampling errors and estimation procedures.

*Prerequisite:* 1701-443 or 1701-444 or equivalent

3 semester hours

**1701-551 Topology**

Basic point-set topology, topological spaces, homeomorphisms, compactness, connectedness, separation properties, uniformities. Introductory algebraic topology, homology groups and homotopy groups.

*Prerequisite:* 1701-425 or equivalent

3 semester hours

**1701-554 Projective Geometry**

Methods of synthetic and analytic projective geometry are compared and used to emphasize the fundamental concepts of Euclidean Geometry. Dependence of many common properties and theorems of Euclidean geometry; properties of lines, parallelism, perpendicularity, similarity of figures, and the definition of distance.

*Prerequisite:* 1701-450 or equivalent

3 semester hours

**1701-555 Differential Geometry**

Application of vectors to the study of classical three dimensional geometry. Topics include: Plane and space curves, first and second fundamental forms, lines of curvature, asymptotic lines, geodesics, theorems of Meusnier, Euler, Gauss and Codazzi.

*Prerequisite:* 1701-222 or equivalent

3 semester hours

**1701-560 Numerical Analysis**

Determination of functions from observed experimental data. Topics include: Polynomial approximation, interpolation, numerical integration, numerical solution of equations, linear algebraic equations, matrix inversion and eigenvalue analysis, numerical solution of differential equation.

*Prerequisite:* 1701-335 and 1701-425 or equivalent

3 semester hours

**1701-564 Ordinary Differential Equations**

Existence and uniqueness of solutions, periodic solutions, linear and non-linear systems, singularities, stability theory.

*Prerequisites:* 1701-335, 1701-420, 1701-425 or equivalent

3 semester hours

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### **1701-566 Partial Differential Equations**

Fourier series, separation of variables, hyperbolic, parabolic and elliptic equations, Fourier and Laplace transform methods.

*Prerequisites:* 1701-335, 1701-420, 1701-425 or equivalent

*3 semester hours*

### **1701-568-569 Applied Mathematics I, II**

Topics selected from solution of equilibrium and motion problems, initial and boundary value problems, Laplace and Fourier transform methods, solution by eigenvalue expansion, Green's functions, linear operators in infinite dimensional spaces, integral equations and calculus of variations.

*Prerequisites:* 1701-335, 1701-420, 1701-425 or equivalent

*3 semester hours each*

### **1701-570 Administration and Supervision of Mathematics**

Problems of organization, administration and supervision in the mathematics program of the school. Functions, duties and qualifications of the supervisor investigated. Current problems and research findings used to assist in the formation of objectives.

*3 semester hours*

### **1701-571 Curriculum Construction in Mathematics**

Contemporary proposals for the mathematics of grades K through 12. Consideration is given to the problem of implementation of current recommendations. Examination is made of mathematical concepts underlying various programs.

*3 semester hours*

### **1701-572 Teaching of General Mathematics**

Mathematics programs for the non-college-bound high school student. Topics considered: Basic characteristics and needs of non-academic students, preparation and use of resource materials, classroom teaching techniques and methods of motivation. Emphasis on development of suitable curricula for non-academic students.

*3 semester hours*

### **1701-573 Mathematics Materials for the Teacher of Mathematics**

Construction, adaptation and effective use of materials to improve the teaching of high school mathematics. Particular attention given to the overhead projector, films and models and to material for the mathematics laboratory and club activities.

*3 semester hours*

### **1701-574 Problem Analysis in Secondary Mathematics**

Psychology and techniques of problem solving. Discovery and heuristic methods. Intuitive and inductive reasoning in the solution of non-routine problems from high school mathematics. Problem formation and test construction.

*Prerequisite:* 1701-222 or equivalent

*3 semester hours*

### **1701-575 Selected Topics in Mathematics**

Selection of topics associated with secondary and early college years of mathematics investigated from an advanced point of view. Topics will be selected to give the teacher a broader view from such areas as algebra, geometry, linear programming and game theory, real and complex analysis, probability and statistics.

*Prerequisite:* 1701-222 or equivalent

*3 semester hours*

**1701-581 Systems Programming**

Assembly languages, macros, subroutines, data structures, vectors and arrays, tables, hash coding, stacks, lists, data base systems.

*Prerequisite:* 1701-461

3 semester hours

**1701-582 Theory of Automata and Formal Languages**

Languages and grammars, finite automata and regular grammars, context free grammars, push-down automata, Turing machines, computability, deterministic languages, linear bounded automata and stack automata.

*Prerequisite:* 1701-461 and either 1701-431 or 1701-436

3 semester hours

**1701-583 Theory of Digital Machines**

Switching functions, Boolean algebra Boolean minimization, sequential machines, threshold logic, regular expressions.

*Prerequisite:* 1701-461

3 semester hours

**1701-584 Compiler Techniques**

Interpreters and compilers, operator precedence, top-down and bottom-up compilers, production language, semantics, compiler-compilers.

*Prerequisite:* 1701-581 and 1701-582

3 semester hours

**1701-585 Topics in Computer Science**

Recent developments in the field. Topics such as Monte Carlo methods, simulation and special areas of application may be selected.

*Prerequisite:* 1701-581

3 semester hours

**1701-595 Seminar in Mathematics**

Guided study of selected topics in major field of interest.

*Prerequisite:* Permission of graduate advisor

3 semester hours

The following Senior-Graduate courses in Mathematics may be elected with the special permission of the graduate advisor. Course descriptions may be found in the current undergraduate *Bulletin*.

	<i>semester hours</i>
1701-403 Techniques and Applications of Statistics .....	2
1701-410 Vectors and Matrices .....	2
1701-412 Introduction to Probability and Statistics .....	2
1701-414 Techniques of Statistical Control .....	2
1701-415 History of Mathematics .....	2
1701-420 Differential Equations .....	3
1701-425 Advanced Calculus I .....	3
1701-426 Advanced Calculus II .....	3
1701-428 Introduction to Topology .....	3
1701-431 Foundations of Modern Algebra .....	3
1701-433 Theory of Numbers .....	2
1701-436 Elements of Logic .....	2
1701-443 Statistics: Theory and Applications .....	3
1701-444 Statistical Methods for Research .....	3
1701-445 Techniques of Statistical Control .....	3



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1701-450	Foundations of Geometry .....	3
1701-460	Introduction to Applied Mathematics .....	2
1701-461	Computer Science I .....	3
1701-462	Computer Science II .....	3
1701-465	Linear Programming and Game Theory .....	3
1701-470	Teaching of Mathematics .....	3
1701-471	Selected Topics in Modern Mathematics .....	3
1701-472	Contemporary Programs in Secondary Mathematics .....	2
1701-495	Seminar in Mathematics I and II .....	3 each
1701-496	Seminar in Mathematics II .....	3

## MUSIC

### **1004-500 (60-503A) Applied Music I: Primary Instrument**

Study of performance in the student's major area of expression in a manner suited to those specializing in the area of Music Education or Theory-Composition. Fifteen private lessons per semester.

*Admission by permission only. Music fee: \$150.00*

*2 semester hours*

### **1004-501 (60-503B) Applied Music II: Primary Instrument**

Continuation of 1004-500.

*Admission by permission only. Music fee: \$150.00*

*2 semester hours*

### **1004-502 (60-510A) Applied Music: Secondary Instrument I**

An elementary course for the beginner or the student with limited background. Fifteen half-hour lessons per semester, private instruction.

*Admission by permission only. Music fee: \$75.00*

*1 semester hour*

### **1004-503 (60-510B) Applied Music: Secondary Instrument II**

Continuation of 1004-502 or study of an additional performance medium.

*Admission by permission only. Music fee: \$75.00*

*1 semester hour*

### **1004-504 (60-504) Applied Music III: Primary Instrument**

Intensive study in a major performing area for students majoring in Applied Music. Two recitals of professional caliber are prepared as representative of two semesters of work, or one recital per semester. At least one of these recitals must be publicly performed, the other may be before a faculty jury. Admission by audition only and open only to majors in Applied Music. Fifteen one-hour lessons per semester.

*Music fee: \$50.00*

*6 semester hours*

### **1004-505 Applied Music IV: Primary Instrument**

Continuation of 1004-504.

*Music fee: \$50.00*

*6 semester hours*

### **1004-506 (60-506) Applied Music V: Primary Instrument**

Intensive study in a major area of performance similar to 1004-504/505. Open only to students majoring in Applied Music. Fifteen one-hour lessons per semester.

*Admission by audition only. Music fee: \$100.00*

*4 semester hours*

**1004-507 (60-507) Applied Music VI: Primary Instrument**

Continuation of 1004-506

Music fee: \$100.00

4 semester hours

**1004-508 (60-508) Applied Music VII: Primary Instrument**

Continuation of 1004-507.

Music fee: \$100.00

4 semester hours

**1016-511 (60-511) Theoretical and Aural Skills in Music I**

Principles and practice of music construction, aural skills in manipulating pitch and rhythm, and related structural analysis. The total spectrum of music is used as a base, with specific techniques of pitch and rhythm control approached from both harmonic and contrapuntal standpoints. Areas of study include primitive and simple folk idioms, modal counterpoint in two and three parts, diatonic tonal harmony in vocal and instrumental styles, tonal counterpoint in two parts and free composition.

*Open to music majors only*

3 semester hours

**1016-512 (60-512) Theoretical and Aural Skills in Music II**

Continuation of 1016-511. Complex non-Western systems, modal and tonal imitative counterpoint in three and four parts, chromatic tonal harmony and expanded resources and techniques of the twentieth century.

*Prerequisite:* 1016-511 or the equivalent, the latter to be determined by the instructor or the Graduate Advisor for Music.

3 semester hours

**1016-513 (60-513) Composition**

Writing of variations, small forms, songs and compositions for small ensembles. Analysis and workshop performance included.

*Prerequisite:* 1016-511 or equivalent.

3 semester hours

**1016-514 (60-514) Counterpoint**

Analysis and composition of polyphonic techniques as evidenced in inventions, canons and motets based on the several compositional styles of Western music.

*Prerequisite:* 1016-512 or equivalent.

3 semester hours

**1016-515 (60-515) Advanced Counterpoint**

Analysis and composition of polyphonic forms utilizing development. Special attention given to the sonata form and the fugue.

*Prerequisite:* 1016-514 or equivalent.

3 semester hours

**1016-516 (60-516) Advanced Instrumentation**

Workshop course in instrumentation as applied to both orchestra and band. Principles of *tutti* instrumentation as applied to both media. Scoring for smaller ensembles. Study of instruments, instrumental families and their possibilities and best uses. Direct instrumental setting of songs, hymns, etc. without the writing of a score. Elements of band military march construction and scoring. Performance of student instrumentations when possible.

*Prerequisite:* 1016-511 or equivalent.

2 semester hours

**1016-517 (60-517) Theory of Sound**

Phenomena of sound as related to hearing music theory, musical instruments, reproduc-

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tion of music (phonograph, etc.) and conditions under which music is heard.

2 semester hours

### **1016-518 (60-501) Private Study in Composition I**

Advanced work in musical composition in forms and genres determined jointly by teacher and student. Fifteen private lessons per semester.

*Admission by permission only. Music fee: \$150.00*

3 semester hours

### **1016-519 (60-502) Private Study in Composition II**

Continuation of 1016-518.

*Admission by permission only. Music Fee: \$150.00*

3 semester hours

### **0832-522 (60-521A) Classroom Methods: Piano**

Elementary and secondary classroom methods in the medium of the piano, dealing with principles, materials and methods in teaching groups of students. Designed for teachers wishing to exchange or learn new approaches to classroom techniques.

2 semester hours

### **0832-523 (60-521B) Classroom Methods: Brass Instruments**

Materials of 0832-522 as applied to the brass choir.

2 semester hours

### **0832-524 (60-521C) Classroom Methods: Woodwind Instruments**

Materials of 0832-522 as applied to the woodwind choir.

2 semester hours

### **0823-525 (60-521D) Classroom Methods: Stringed Instruments**

Materials of 0832-522 as applied to the string family.

2 semester hours

### **0832-526 (60-521E) Classroom Methods: Percussion Instruments**

Materials of 0832-522 as applied to percussion instruments.

2 semester hours

### **0832-527 (60-521F) Classroom Methods: Voice**

Materials of 0832-522 as applied to singing.

2 semester hours

### **1004-528 (60-524) Survey of Wind Instrument Music**

Survey of literature for brass and woodwind players, solo, ensemble and full band. Emphasis on materials for elementary and secondary school instrumentalists. Special attention given to music originally written for wind instruments and newly published compositions. Class members constitute a laboratory band and ensemble groups.

2 semester hours

### **1004-529 (60-529) Choral Conducting**

Problems and techniques of choral rehearsal and performance. Emphasis on tone production, intonation, balance and diction. Materials cover both accompanied and unaccompanied choral repertoire.

*Prerequisites:* an undergraduate course in choral conducting or experience satisfactory to the instructor or Graduate Advisor for Music

2 semester hours

### **1004-530 (60-530) Advanced Conducting**

Baton techniques, clef reading, playing from score at the piano, transposition, score

analysis, rehearsal techniques and problems of interpretation and accompaniment by orchestra and band, as well as choral conducting techniques.

*Prerequisite:* preparation satisfactory to the instructor or to the Graduate Advisor for Music.

3 semester hours

**1004-531 (60-531) Ensemble: Chorus I**

Rehearsal and performance in conventional choral media.

*Admission by audition only*

2 semester hours

**1004-532 (60-532) Ensemble: Chorus II**

A second semester of 1004-531.

2 semester hours

**1004-533 (60-533) Ensemble: Opera Workshop I**

Rehearsal and performance of operatic repertoire in English or English translation.

*Admission by audition only:* Auditions are held in the second month of the semester prior to that semester in which the workshop is offered.

2 semester hours

**1004-534 (60-534) Ensemble: Opera Workshop II**

A second semester of 1004-533.

2 semester hours

**1004-535 (60-535) Ensemble: Band I**

Rehearsal and performance of band and wind ensemble literature.

*Admission by audition only*

2 semester hours

**1004-536 (60-536) Ensemble: Band II**

A second semester of 1004-533.

2 semester hours

**1004-537 (60-537) Ensemble: Orchestra I**

Rehearsal and performance of orchestral repertoire.

*Admission by audition only*

2 semester hours

**1004-538 (60-538) Ensemble: Orchestra II**

A second semester of 1004-537.

2 semester hours

**1004-539 (60-539) Master Class in Musical Performance: German Vocal Literature**

Coaching small groups in refinements of performance, including stylistic interpretation, programming, interpretive analysis, diction, etc.

*Open through audition only to both singers and pianists.*

2 semester hours

**1004-540 (60-540) Master Class in Musical Performance: Italian Vocal Literature**

Similar to 1004-539 but focusing on Italian repertoire.

*Open through audition only to both singers and pianists.*

2 semester hours

**1004-541 (60-541) Master Class in Musical Performance: French Vocal Literature**

Similar to 1004-539, but focusing on French repertoire.

*Open through audition only to both singers and pianists.*

2 semester hours



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### **1004-542 (60-542) Master Class in Musical Performance: English Vocal Literature**

Similar to 1004-539, but focusing on English repertoire.

*Open through audition only to both singers and pianists.*

*2 semester hours*

### **1004-543 (60-543) Master Class in Musical Performance: Woodwind Literature**

Coaching small groups in solo and small ensemble literature for woodwind instruments. Stress placed on stylistic interpretation, tone, balance and other refinements of performance.

*Open through audition only. Pianists may also register for this course as accompanists, but must audition.*

*2 semester hours*

### **1004-544 (60-544) Master Class in Musical Performance: Brass Literature**

Similar to 1004-543, but focusing on brass repertoire.

*Open to both pianists and brass players through audition only.*

*2 semester hours*

### **1004-545 (60-545) Master Class in Musical Performance: String Literature**

Similar to 1004-543, but focusing on string repertoire.

*Open to both pianists and string players through audition only.*

*2 semester hours*

### **1004-546 (60-546) Master Class in Musical Performance: Organ Literature**

Similar to 1004-542, but focusing on organ repertoire.

*Open to organists only, through audition only.*

*2 semester hours*

### **1004-547 (60-547) Master Class in Musical Performance: Piano Literature**

Similar to 1004-543, but focusing on piano repertoire.

*Open to pianists only, through audition.*

*2 semester hours*

### **1004-548 (60-548) Master Class in Musical Performance: Percussion Literature**

Similar to 1004-543, but focusing on percussion repertoire.

*Open to percussionists through audition only*

*2 semester hours*

### **1006-549 (60-406) Modern Music**

Study of musical styles of the twentieth century. Historical sources, major composers and recent trends.

*2 or 3 semester hours*

### **1006-550 (60-409) Chamber Music**

Survey of vocal and instrumental music composed for one to ten performers, one per part, from the Renaissance through the modern era. Analysis of both compositional style and nature of chamber genres.

*2 or 3 semester hours*

### **1006-551 (60-425) The Literature of the Orchestra**

Historical survey of such genres as the suite, overture, concerto, symphony and tone poem from the development of orchestral style of playing in the seventeenth century to the present.

*2 or 3 semester hours*

**1006-552 (60-525) An Ethnological Approach to Music**

Study of music outside the area of Western art music. Examination of ethnic roots and influences, theory, media and performance practices. Folk and professional idioms of the Far East, Near East, Africa, Europe and the Americas. Study for non-majors will emphasize musical experience and social-cultural background, while music majors will also pursue a more technical approach.

*3 semester hours*

**1006-553 (60-526) Jazz**

Detailed study of jazz as an art form, its impact upon music and other contemporary arts, and the sociological impact of it in American and world culture. The class will also examine specific performance techniques.

*Prerequisite:* At least one undergraduate or graduate semester of music or permission of the instructor or graduate advisor for Music.

*3 semester hours*

**1006-554 Opera I**

Study in depth of the operas of the Baroque and Classical Eras from Monteverdi through Beethoven, attention being directed to the evolution of musical style, changing aesthetics and the use of music for purposes of characterization and plot development. Attention will also be directed to the cultural environment within which this development has taken place.

*3 semester hours*

**1006-555 Opera II**

Continuation of 1006-554, examining operatic styles and representative works of the Romantic and Modern Eras.

*Prerequisite:* 1006-554 or permission of the instructor or graduate advisor for music.

*3 semester hours*

**1016-501 (60-450) Music Typography**

Preparation of music for publication through the use of the music typewriter. Includes preparation of scores, instrumental parts and vocal scores.

*2 semester hours*

**1017-572 (60-460) Recreational Music**

Study of the use of music in leisure time. Both group and individual music activities included. Skills in leading group recreational activities emphasized. Informal instruments introduced and techniques of teaching these instruments to people with limited musical backgrounds included.

*2 semester hours*

**1017-573 (60-461) Influence of Music on Behavior**

Music as a human behavior with emphasis on effects of music on behavior and its relationship to health.

*Prerequisite:* 4 hours of biology, 3 hours of sociology, 3 hours of psychology, and 3 hours of anthropology

*3 semester hours*

**1017-574 (60-574) Music in Therapy**

Techniques and activities of the music therapist in relationship to the various categories of treatment and investigation of the effect of the therapist's personality and attitudes.

*Prerequisites:* 1017-573 or 1017-575

*3 semester hours*

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### **1017-575 (60-463) Psychological Foundations of Music I**

Stress on factors affecting musical perception and review of music as an acoustical phenomenon through experimental investigation. Measurement and diagnosis of musical ability.

*Prerequisites:* acoustics; 3 hours of psychology

2 semester hours

### **1017-576 (60-464) Psychological Foundations of Music II**

Techniques of research and of reporting research on psychological aspects of music.

*Prerequisites:* 1017-575, 1017-573

2 semester hours

### **1017-577 (60-465) Clinical Experience II**

Six months of clinical training as a music therapy intern in a training program approved by the National Association for Music Therapy.

All other course work leading to the Bachelor of Arts in Music must be completed before internship.

1 semester hours

### **0832-578 (60-519) The Kodaly System in Music Education**

Examination of procedures involved in using the Kodaly materials and techniques in teaching music reading and comprehension.

2 semester hours

### **0832-579 (60-520A) Problems and Materials of Instrumental Music**

Evaluation of teaching experiences, study of problems of organizing instrumental music in school and examination of the music literature for orchestra, band and small ensemble at various levels of music education.

2 semester hours

### **0832-580 (60-520B) Problems and Materials of Choral Music**

Survey of choral repertoire for accompanied and unaccompanied groups, for changing, unchanged and mixed voices. Criteria for evaluating materials and for program building. Members of class constitute a laboratory chorus.

2 semester hours

### **Independent Study in Music**

0832-599 (60-500) Independent Study in Music Education

1004-599 (60-500) Independent Study in Performance

1016-599 (60-500) Independent Study in Music History and Literature

1016-599 (60-500) Independent Study in Theory/Composition

1017-599 (60-500) Independent Study in Music Therapy

1018-599 (60-500) Independent Study in Sacred Music

3 or 4 semester hours each

The undertaking of course work in one of the regularly listed catalog courses of the Department of Music (excluding Applied Music) in a depth greater than that normally pursued of research will, however, be arranged with the graduate advisor for Music and second meeting of the course. Written permission for 599 must be obtained from the graduate advisor for music prior to registration. Independent Study may be elected more than once during the graduate program, but may apply to only one course per semester.

### **Independent Study in Music**

0832-600 (60-600) Independent Study in Music Education

1004-600 (60-600) Independent Study in Performance

1006-600 (60-600) Independent Study in Music History and Literature

1016-600 (60-600) Independent Study in Theory/Composition

- 1017-600 (60-600) Independent Study in Music Therapy  
1018-600 (60-600) Independent Study in Sacred Music  
4 semester hours each

Individual pursuit of a research topic culminating in a written document of length and scholarly integrity independent of any course structure. The student's area of study and pursuit of research will, however, be arranged with the Graduate Advisor for Music and a course advisor appointed by him prior to the semester in which the student registers for independent study. Work for this course may be spread over two semesters, in which case the student should register only for the semester in which the work will be completed. Written permission from the graduate advisor for Music is required.

Special Fee: \$100

**0832-603 (60-603) Seminar in Music Education**

Investigation and application of techniques of research as they apply to music education  
*Open only to fully matriculated students majoring in music.*

3 semester hours

**1006-604 (60-604) Seminar in Historical Research**

Study of music bibliography, research method and critical analysis.

*Open only to fully matriculated students majoring in music.*

3 semester hours

## PHYSICAL EDUCATION

**0835-550 (76-550) Survey of Literature and Trends in Physical Education**

Comprehensive survey of books, periodicals and other teaching materials in the field of physical education. Experiment with new trends and equipment and opportunities to observe master teachers and their methods.

3 semester hours

**0835-551 (76-551) Philosophy of Recreation in School and Community**

Development of recreational philosophies and a study and evaluation of the modern philosophy in America. Organization of recreation in school and community, the importance of leadership, social and cultural implications, economic, governmental and leisure time influences and study of current practices.

3 semester hours

**0835-552 (76-552) Seminar in Current Problems in Men's Athletics**

Cultural, educational, economic and Physical aspects in the selection of appropriate activities. Objectives in relation to desired outcomes established on the basis of group needs. Types of program organization and planning, motivation, publicity and awards. Programs in operation will be examined and literature and research projects will be reviewed.

3 semester hours

**0835-553 (76-553) Seminar in Current Problems in Women's Athletics**

Cultural, educational, economic and physical aspects in the selection of appropriate activities. Objectives in relation to desired outcomes established on the basis of group needs. Types of program organization and planning, motivation, publicity and awards. Programs in operation will be examined and literature and research projects will be reviewed.

3 semester hours

**0835-554 (76-554) Orientation in Sports Medicine**

New techniques, materials, modalities and problems related to the prevention and care of athletic injuries. Appropriate current developments in the field of sports medicine along with new concepts and activities for conditioning for both the athlete and non-



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athlete. Background courses in Kinesiology, Physiology of Exercise and Care and Prevention of Athletic Injuries are recommended.

3 semester hours

### **0835-555 (76-555) Scientific Analysis of Sport and Physical Education Skills**

Principles of efficient movement as determined through research in allied fields. Mechanical and physiological principles and their importance in accelerating and improving motor learning as well as efficient body movement. Laboratory exercise, projects and demonstrations used. Background courses in Kinesiology are recommended.

3 semester hours

### **0835-556 (76-556) Psychology of Physical Activity**

Scientific principles and research from the field of psychology studied and related to the world of physical activity. Educational program situations amenable to research and the application of psychological principles are studied. Psychological evidence is utilized to recommend improvement in physical education methodology.

3 semester hours

### **0835-557 (76-557) Perceptual Motor Learning in Physical Education**

Prepares students in the area of perceptual motor training. Current theories concerning the inter-relationships of perceptual development and sensorimotor activity are discussed with important implications for elementary school physical education programs.

*Prerequisite:* Elementary Physical Education Methods Course

3 semester hours

### **0835-570 (76-570) Current Trends and Developments in Elementary Physical Education**

Reviews and expands the undergraduate program, experimenting with new methods and techniques with special emphasis on the inter-disciplinary approach to teaching, movement, education, gymnastics with hand apparatus, rhythms and physical education as related to visual perception and space relationships.

*Prerequisite:* Elementary Physical Education course or approval of instructor

3 semester hours

### **0835-575 (76-575) Philosophical and Sociological Foundations of Physical Education**

A survey is made of developments in physical education from primitive man to modern times, identifying the influences which caused the change. The current sociological problems and the resultant needs are studied in relation to physical education. Philosophies are examined and analyzed for application to the teacher and the learner in physical education.

*Prerequisite:* A course covering the history and principles of Physical Education.

3 semester hours

### **0835-576 (76-576) Curriculum Development in Physical Education**

Selection of appropriate physical education activities for elementary and high school programs based on principles of growth and development and psychological and sociological needs. Current trends and practices investigated and evaluated. Opportunities for working in the student's particular area of interest are offered. The student is taught to identify the relationship of physical education programs at all levels and of physical education to other areas of instruction in the school curriculum.

*Prerequisite:* Methods course in elementary and secondary physical education.

3 semester hours

✓ **0835-577 (76-577) Administration and Supervision in Physical Education**

Role of the teacher and administrator in supervision in physical education. Techniques of interview, visitation, conference and others in reference to their use with student teachers, beginning teachers and experienced teachers. Supervision of both physical education and classroom teachers.

3 semester hours

**0835-578 (76-578) Physical Education for the Exceptional Child**

Advanced course in the adaptation of physical education for the exceptional child. Aims, objectives, principles and underlying philosophies are examined. Administration organization and development of such programs in the schools. Current trends evaluated.

*Prerequisite:* An undergraduate course in adapted or corrective physical education.

3 semester hours

✓ **0835-579 (76-579) Advanced Measurement and Evaluation in Physical Education**

Survey of development of new tests and techniques for determining levels of skill, status in growth and development and the various qualities which contribute to total physical fitness. Advanced techniques for processing data.

*Prerequisite:* A course in educational statistics.

3 semester hours

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✓ **0835-603 (76-603) Research Seminar in Physical Education**

Examination of the principles upon which physical education research is based. Familiarize students with important studies, programs, personnel and techniques employed in research in this area. Each student will be required to complete a research project which must be presented to the physical education faculty for approval.

*Prerequisite:* Methods and Instruments of Research (0824-503).

3 semester hours

The following Senior-Graduate courses may be elected with the special approval of the graduate advisor. Course descriptions may be found in the current undergraduate *Bulletin*.

*semester hours*

0835-414	Nature and Function of Play .....	2
0835-415	Movement Techniques and Rhythmic Accompaniment .....	2
0835-416	Selected International Aspects of Physical Education .....	2
0835-417	Dalcroze Eurhythmics .....	2
0835-419	Recreational Needs in Urban Society .....	2
0835-420	Dance as an Art Form .....	2

*simultaneous*

## POLITICAL SCIENCE

A candidate for the Master of Arts degree in Social Studies with a concentration in Political Science is required to take twelve hours from the following courses in addition to meeting all other requirements for the degree.

**2207-501 (95-501) Public Administration and Public Policy**

Analysis of literature and developments in the field of public administration from Woodrow Wilson to the current comparative public administration movement. Techniques of administrative management, personnel administration and financial administration in the federal bureaucracy are considered.

*Prerequisite:* An undergraduate course in administration or permission of the instructor.

3 semester hours

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### **2207-502 (95-502) Modern Political Analysis**

Methodologies and orientations that have guided the study and analysis of political phenomena. Utility of methods is examined by reference to political data that relates to specific political systems. Perspective is comparative.

*Prerequisite:* Scope and Methods in Political Science (2207-300) or a course equivalent, or permission of the instructor

3 semester hours

### **2207-512 (95-512) Origin and Development of the Constitution, 1619-1835**

The roots and influences that determine the nation's basic political institutions. Attention on techniques of historical research and writing as it applies to the early period in American History.

*Prerequisite:* A course in American Government or permission of the instructor.

3 semester hours

### **2207-521 (95-521) History of Political Thought**

Systematic analysis of the three main patterns of political discourse—the traditions of the order of freedom and society, from the pre-Socratic thinkers to Herbert Marcuse. Leading concepts of each tradition related to their historical and institutional context.

*Prerequisite:* A course in political theory or permission of the instructor.

3 semester hours

### **2207-522 (95-522) Great Britain and the Commonwealth**

Origins, membership and working institutions of the British Commonwealth of Nations. Problems of the Commonwealth since 1945, in light of Britain's altered position in international affairs.

3 semester hours

### **2207-523 (95-523) The Politics of Developing Areas**

Introduction to the field of political change in the world's developing areas. Theoretical and empirical factors that have contributed to the contemporary search for political modernization in the emerging nation-states of Africa, Asia and Latin America.

3 semester hours

### **2207-551 (95-551) Contemporary Constitutional Law Problems**

Investigation of the Supreme Court's decisions in the area of public law. Critical analysis and in-depth study of the first Ten Amendments undertaken especially as related to the Court's recent decisions.

*Prerequisite:* A course in Constitutional Law or permission of the instructor.

3 semester hours

### **2207-552 (95-552) The President and Congress**

Organization, structure and powers of the national executive and legislative branches of government. Emphasis on legislative-executive relationships, nature and functioning of the legislative process, respective roles of the President and Congress in the formulation of public policy in a modern democracy.

*Prerequisite:* A course in American Government or permission of the instructor.

3 semester hours

### **2207-553 (95-553) The Federal Courts**

Structure of the federal courts and their functionings. Comparisons and contrasts drawn between the national and state judicial systems and the bodies of law they interpret. Major decisions of the Supreme Court examined in tracing the changes in judicial outlook and interpretation.

*Prerequisite:* A course in American Government or State and Local Government or permission of the instructor.

3 semester hours

**2207-554 (95-554) Seminar in American Political Thought**

Analysis of the various interpretations of American political thought. Nature and limitations of the liberal ethos underlying the American political and constitutional system examined as is the controversy over the "bias" of American pluralism.

*Prerequisite:* A course in American Political Thought or permission of the instructor.

3 semester hours

The following Senior-Graduate courses in Political Science may be elected with special permission of the graduate advisor. Course descriptions may be found in the current undergraduate *Bulletin*.

*semester hours*

2207-401	Constitutional Law .....	3
2207-402	Government and Politics of Africa .....	3
2207-403	Governments and Politics of the Far East .....	3
2207-404	Governments and Politics of South Asia .....	3
2207-405	Governments and Politics of Latin America .....	3
2207-406	Governments and Politics of the Middle East .....	3
2207-407	The Government and Politics of the U.S.S.R. ....	3
2207-408	The Development of Political Thought to Hegel .....	3
2207-409	Modern Political Thought .....	3
2207-411	Black Politics in America .....	3
2207-430	International Law .....	3

## PSYCHOLOGY

**2001-510 (65-510) Research Methods in Psychology**

Non-laboratory introduction to correlational and experimental methods of research in psychology applied to practical issues. Required of students matriculated in the Educational Psychology Program.

*Prerequisite:* Completion of one graduate course in psychology. Open to only matriculated psychology majors.

3 semester hours

**2001-520 (65-520) Advanced General Psychology I**

Learning and motivation (first half term), personality and abnormal psychology (second half term).

*Prerequisite:* Open to matriculated candidate in general psychology program only. Must be taken during the first year of the program.

3 semester hours

**2001-521 (65-521) Advanced General Psychology II**

Sensation and perception (first half-term), social psychology (second half term), personality and abnormal psychology (second half term).

*Prerequisite:* Open to matriculated candidate in general psychology program only. Must be taken during the first year of the program.

3 semester hours

**2001-538 (65-538) Ethnopsychology**

See Anthropology 2202-538

3 semester hours



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### **2001-540 (65-540) Remedial Techniques with Emotionally Disturbed Children**

Theory and techniques in helping children who are having difficulty in basic skills.

*Prerequisite:* Permission of instructor.

*3 semester hours*

### **2001-541 (65-541) Curriculum Development and Methods of Teaching Inner City Children**

Problems in teaching in the inner city school and the special needs of the inner city child will be considered. Innovations in teaching methods related to current research findings. Practicum experience coordinated with course materials.

*Prerequisite:* 2001-553, 2001-565

*3 semester hours*

### **2001-545 (65-545) Seminar in Emotional Disturbances of Children I**

Research findings in the area of childhood personality disorders and of the techniques and philosophy of their education. Psychodynamic and educational diagnosis and planning for effective placement and program.

*Prerequisite:* Permission of the instructor. Open only to matriculated students.

### **2001-546 Seminar in Emotional Disturbances of Children II**

Day to day problems of adjustment in the educational setting and the relationships to major theoretical approaches, e.g., behavioral, psychoanalytic and existential. Working with family and parents explored. Integrated with special practicum experiences.

*Prerequisite:* 2001-545, and 665, or its equivalent and permission of the instructor

*3 semester hours*

### **2001-549 (65-549) Psychology of the Adult Learner**

Methods and materials of learning which can be adapted to adult education. Emphasis on: identifying educational needs, understanding problems of the adult learner, overcoming learning difficulties, motivation and other factors affecting effective learning and counselling procedures. Course individually programmed commensurate with the student's background and professional goals.

*3 semester hours*

### **2001-550 (65-550) Quantitative and Statistical Methods**

Principles and techniques of data analysis in psychology. Training in the development of mathematical descriptions of psychological phenomenon, estimation of parameters, and hypothesis testing.

*Prerequisite:* Permission of instructor and a qualifying examination in basic statistics. Open only to matriculated students.

### **2001-551 (65-551) Advanced Experimental Psychology**

Laboratory course on contemporary research issues in psychology. An original research project will be required.

*Prerequisites:* Undergraduate Experimental Psychology and Graduate Statistics (2001-550)

*3 semester hours*

### **2001-552 (65-552) General Social Psychology**

Theory, methodology and research findings. Topics include: biological basis of social behavior, socialization, attitudes development and change, value systems, group processes and conflict.

*Prerequisite:* One course in psychology

*3 semester hours*

**2001-553 (65-553) Urban Psychology**

Primary focus and psychological development of the disadvantaged. Biogenetic perspectives, intellectual and language development, motivation and scholastic achievement, personality and the self-concept, environmental intervention.

*Prerequisite:* One course in psychology

3 semester hours

**2001-554 (65-554) The Psychology of Business and Industry**

Application of psychological findings to problems encountered in business, industry and the professions.

3 semester hours

**2001-555 (65-555) Psychological Aspects of Poverty**

Psychological aspects of a basic poverty culture from a developmental aspect. Child rearing practices, sub-group culture, mores, social psychology and self-perpetuation of certain aspects evaluated in terms of the needs, growth patterns and problems of persons involved in such an environment.

*Prerequisite:* 2001-553. Open only to matriculated students.

3 semester hours

**2001-560 (65-560) Advanced Educational Psychology**

Focus on the learner and the learning process in school situations. Topics include: motivation, acquisition of skills, ideas and attitudes, technological and other innovations in teaching and learning and evaluation of teacher-learning.

*Prerequisite:* An introductory graduate course in psychology

3 semester hours

**2001-561 (65-561) Developmental Psychology**

Theoretical issues and research findings on mental processes from pre-natal life through adolescence.

*Prerequisite:* one course in psychology. Open only to matriculated students.

3 semester hours

**2001-562 (65-562) Dynamics of Human Behavior**

Relationship of social forces to mental health. Environmental factors which contribute towards behavioral and learning pathologies.

*Prerequisite:* Permission of instructor

3 semester hours

**2001-563 (65-563) Theories of Learning**

Review of current learning theory and research and the implications for education.

*Prerequisite:* Two courses in psychology or special permission of graduate advisor.

Open only to matriculated general psychology majors. A section may be opened up for other matriculated students.

3 semester hours

**2001-564 (65-564) Psychology and Education of the Physically and Mentally Handicapped Children**

Current practices and problems in the education of children with physical and mental handicaps. Designed for teachers, counselors, supervisors and administrators who may work with such children or who may wish to prepare for school and community leadership in developing facilities.

*Prerequisite:* 2001-561

3 semester hours

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### **2001-565 (65-565) Psychology and Education of Socially and Emotionally Handicapped Children**

Practice and problems in education of socially and emotionally handicapped children.

*Prerequisite:* 2001-561

3 semester hours

### **2001-566 (65-566) Psychology and Education of the Gifted**

Picture of bright and gifted young people in contemporary American life. Surveys various practices involved in education, as well as the psychological characteristics of this group and socio-emotional development.

*Prerequisite:* 2001-561 or permission of the instructor.

3 semester hours

### **2001-567 (65-567) Abnormal Psychology**

Models and selected research in psychopathology. Topics include: psychopathology, physical illness, psychosomatic and somatopsychic disorders, neurosis, psychosis, environmental factors in relation to organic factors.

*Prerequisite:* 2001-563, 2001-580

3 semester hours

### **2001-568 (65-568) Psychology of Group Dynamics**

Combines basic foundation in theories of group dynamics and illustrative applications to industry, marital, political, interracial and professional life, along with personal participation by the student in a group, interactive process.

*Prerequisite:* Special permission of instructor. Open only to matriculated psychology majors.

3 semester hours

### **2001-573 (65-573) Physiological Psychology**

Investigation of physiological correlates of behavior with emphasis on a sensory apparatus as well as the major neuro-endocrine integrating relationships in the more complex behaviors.

*Prerequisite:* One course in Experimental Psychology or by special permission of instructor. Open only to matriculated psychology majors. A section may be opened for other matriculated students.

3 semester hours

### **2001-574 (65-574) Individual Intelligence Testing**

Administration, scoring, and interpretation of individual intelligence tests. Student is required to use the Stanford-Binet Scale and the Wechsler Intelligence Scale for Children.

*Prerequisite:* Approved certification candidacy in the school psychology program

### **2001-575 (65-575) Projective Techniques**

Basic instruments of projective testing, particularly the Rorschach and Thematic Apperception Tests, both from the standpoint of basic research and the mechanics of administration and scoring.

*Prerequisite:* Approved certification candidacy in the school psychology program

3 semester hours

### **2001-576 (65-576) Projective Techniques II**

Moves from the theoretical to the practical application of projective tests. Student required to administer, score and analyze individual cases. Major emphasis on the Rorschach and Thematic Apperception Test.

*Prerequisite:* 2001-575

3 semester hours

**2001-578 (65-578) Psychological Tests and Measurements**

Survey course in theory, construction and application of psychological tests.

*Prerequisite:* 65-510 or 65-550. Open only to matriculated psychology major. Another section may be opened for other matriculated students.

3 semester hours

**2001-580 (65-580) Personality**

Major theories and clinical and experimental findings.

*Prerequisite:* 2001-520 or 2001-561. Open only to matriculated psychology majors.

3 semester hours

**2001-581 (65-581) Motivation**

Nature and development of motives and its role in social adjustment.

*Prerequisite:* Open only to matriculated psychology majors.

3 semester hours

**2001-582 (65-582) Behavior Modification**

Survey of issues, principles, practices and research with focus on recent innovations.

*Prerequisite:* 2001-563. Open only to matriculated psychology majors.

3 semester hours

**2001-583 (65-583) Sensation and Perception**

Sensory and perceptual processes. Includes: visual, auditory and other stimulæ, psychophysics and the development of perceptual abilities and the effects of learning, motivation and set on perceptual processes.

*Prerequisite:* Open only to matriculated psychology majors.

3 semester hours

**2001-584 (65-584) Comparative Psychology**

Behavior of animals under experimental conditions and in their natural environment. Behavior comparisons from lower forms to man.

*Prerequisite:* Open only to matriculated psychology majors.

3 semester hours

**2001-590 (65-590) Diagnostic Case Studies**

Learning to use diagnostic material and learning to write up diagnostic findings. Understanding of unique value of various diagnostic tools and the criteria for selection of each in relation to the present school problem.

*Prerequisites:* Approved candidacy in the school psychology certification program. 2001-574, 2001-575.

3 semester hours

**2001-592 (65-592) Special Diagnostic Techniques**

Designed for students who are already competent in basic individual testing techniques. Various specialized tests and techniques covered with emphasis on evaluation of handicapped children.

*Prerequisite:* 65-574, 575 and permission of the graduate advisor.

3 semester hours

**2001-593 (65-593) Clinical Interviewing**

Provides selected trainees in advanced psychology programs with the opportunity to learn clinical interviewing under rigid supervision and as an essential part of a practicum experience. Diagnostic features of interviewing and inter-personal relationships between the psychologist and the client analyzed in depth.

*Prerequisite:* Permission of the graduate advisor and instructor.

3 semester hours



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### **2001-660 (65-660) Seminar in Educational Psychology**

Opportunity to investigate and apply the techniques of research in the Psychology field.

*Prerequisite:* 2001-510 and 2001-560 and matriculation in psychology or educational psychology or candidacy for certification in school psychology.

3 semester hours

### **2001-661 (65-661) Practicum in School Psychology**

Supervised experience in assessment counseling and consultation procedures. Designed to increase competency in psychological techniques required in school setting.

*Prerequisite:* Approved certification candidacy in school psychology program and permission of graduate advisor.

3 semester hours

### **2001-662 (65-662) School Psychology Externship**

Students placed in cooperating school districts or agencies to serve as apprentice psychologists. A fully certified school psychologist, employed in the cooperating district, or an appropriate clinician and the college supervisor make periodic visits and conduct a series of seminars to be scheduled on campus.

*Prerequisites:* Approved certification candidacy in school psychology program.

3 semester hours

### **2001-663 (65-663) Independent Study**

Under faculty supervision readings, field experiences, or research outside of thesis. Student selects one area per semester for 1, 2, or 3 semester hours. Maximum 3 semester hours.

*Prerequisite:* Permission from graduate advisor and instructor. *Open* only to matriculated psychology majors.

1 semester hour to 3 semester hours

### **2001-664 (65-664) Practicum in Teaching Emotionally Disturbed Children I**

Practicum providing experience in teaching seriously and moderately emotionally disturbed children.

*Prerequisite:* Permission of the instructor. *Open* only to matriculated majors in the program for the teaching of emotionally disturbed children.

3 semester hours

### **2001-665 (65-665) Practicum in Teaching Emotionally Disturbed Children II**

Continues the experience described in Psychology 664.

*Prerequisite:* Permission of the instructor. *Open* only to matriculated majors in the program for the teaching of emotionally disturbed children.

3 semester hours

### **2001-600 (65-600) Thesis I**

Individual research under faculty direction. Student presents his thesis proposal at a department colloquium and takes an oral examination upon completion of his thesis.

4 semester hours

## READING

### **0808-500 (37-500) The Nature of Reading**

Provides the secondary subject area teacher and the beginning reading specialist with a knowledge of foundations of reading. Nature of reading, readiness, beginning reading, developmental skills, current practices in teaching of reading in elementary schools and reappraisal of the place of reading in changing society.

3 semester hours

**0808-501 (37-501) Techniques of Reading Improvement in the Secondary School**

Popular techniques useful in improvement of non-clinical reading difficulties found in content subjects. Planned especially for the subject area teacher and the beginning reading specialist, a study is made of secondary school reading needs and specific suggestions outlined for guiding the slow, average and gifted student. Through an actual study of the more widely used reading workbooks, films, slides, tachistoscopic instruments and texts available in the Reading Laboratory facilities, a practical approach is made to building a repertoire of reading skills.

*2 semester hours*

**0808-502 (37-502) Administration and Supervision of Reading Programs**

More complex aspects of organizing and administering reading programs. Includes theory and techniques of leadership, program development, organization of in-service programs, developing a budget and methods of evaluation. Background for reading specialists to establish or administer functional secondary school reading program.

*2 semester hours*

**0808-503 (37-503) Literature for Adolescents**

Interests, attitudes and reading abilities of contemporary youth. Background for development of recreational reading programs in junior and senior high schools. Appraisal of literature written for students, as well as literature originally intended for adults but read widely by adolescents. Criteria for book selection, censorship, role of mass media, minority group identification through books, biblio-therapy, bibliography and importance of librarian.

*2 semester hours*

**0808-504 (37-504) The Reading Needs of Adult Learners**

Designed for teachers of out-of-school youth and adults. Language learning and related psychological factors, methodology and reading instruction, literature and the reading program and innovations in reading instruction for out-of-school youth and adult.

*3 semester hours*

**0808-505 (37-505) Research Seminar in Reading**

Laboratory situation for exploration and study of problems in the field of reading that are suggested by educational events and trends of the year, by interests and responsibilities of members of the class and by educational movements in New Jersey, the country and the world. Each student will execute an individual research effort with reports to the class.

*2 semester hours*

**0808-506 (37-506) Reading Resources**

Value or lack of value of software, hardware, multi-media and multi-sensory materials available in schools and adjunct facilities. Philosophic, psychological and academic considerations of reading resources questioned. Video tape demonstrations of materials enables students to review additional resources.

*3 semester hours*

**0808-509 (37-509) The Teaching of Communication Skills**

Abilities, limitations and needs of students in communication skills area. Adaptations that must be made in curricula, assignments and classroom procedures to the levels of students in a classroom. Remedial measures that might be taken to improve status. Communication skills include specific areas of speaking, listening, reading and writing. Speech, Reading, and English Instructors involved in course. Students gain understand-

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ing of basic principles in each of these fields and their relationship to teaching of any subject.

*Open to M.A.T. and certification students only*

*3 semester hours*

### **0808-510 (37-510) Field Experience in Reading**

Various aspects of reading through agencies and programs actually dealing with such problems. Observation and participation in activities of agencies assigned. Written accounts of observations and experiences. Students engaged in long-range research, students who have limited teaching experience and students who need additional field and clinical experience may enroll and pursue their ideas with the approval of advisor.

*Prerequisite:* Permission of the graduate advisor.

*2 semester hours*

### **0808-511 (37-511) Case Studies of Reading Difficulties, Part I**

Techniques used to diagnose reading difficulties. Most frequently used tests and inventories as applied to actual testing of a child with reading problems. Particular attention given to unique values of group and individual tests, survey and diagnostic tests and standardized and informal tests. Case reporting to parents, schools and agencies is undertaken. Develops skills in diagnosing reading problems for individuals to be used by clinician for treating remedial and corrective students.

*Prerequisite:* Previous experience in reading courses.

*3 semester hours*

### **0808-512 (37-512) Case Studies of Reading Difficulties, Part II**

Refinement of case study and role of individual and classroom diagnosis in reading program. Diagnosis in terms of reading specialist as part of a team in developing programs for improving teaching of reading through diagnosis, the case study, local and national norms and other relevant data.

*3 semester hours*

### **0808-513 (37-513) Corrective and Remedial Reading, Part I and II**

Clinical courses in causation and treatment of reading disability planned for advanced students and specialists who are involved in remedial instruction. Part I offers opportunity to extend training by investigation and interpretation of serious reading problems. Study is made of causes of reading difficulties. Techniques of remedial and corrective treatment. Part II attention is paid to selection and adaptation of suitable improvement devices and materials and ideas which enable a disabled reader to improve. Intensive treatment in a practicum situation required. Clients are drawn from the classes in the Reading Laboratory. Additional tutoring hours will be arranged.

*Permission from the instructor*

*3 semester hours*

## SCIENCE EDUCATION

### **0834-505 (80-505) Research Seminar in Science**

Opportunity for graduate students in science, supervisors and science teachers to investigate research in science education and organize science experiences and information with the teaching materials. Each members of group selects project. Project must be presented to the science faculty and graduate students for evaluation.

*Prerequisites:* Matriculation for the Master of Arts degree in science, concurrent registration in 0824-503, or permission of the instructor.

*2 semester hours (Hours by arrangement)*



The following Senior-Graduate courses in Science Education may be elected with the special permission of the graduate advisor.

Course descriptions may be found in the current undergraduate *Bulletin*.

semester hours

0834-409	Senior High School Physical Science Demonstrations .....	2
0834-410	Junior High School Science Demonstrations .....	4

## Interdisciplinary Science Courses

The following Senior-Graduate Interdisciplinary courses in Science may be elected with the special permission of the graduate advisor.

Course descriptions may be found in the current undergraduate *Bulletin*.

semester hours

4902-411	Photography .....	4
4902-418	Three Centuries of Science Progress .....	2
4902-422	Consumer Science .....	3
4902-444	Science and Society .....	2

## SOCIOLOGY

### 2208-559 (96-559) Sociology of Deviance

Efforts of such people as Lemert, Becker, Merton, Matze and others to develop sociological theories concerning crime, delinquency, mental illness and general issues.

3 semester hours

### 2208-560 (96-560) Sociological Theory

Practical and philosophical methods of the seminal sociological theorists evaluated in terms of conceptions of adequate scientific procedure.

3 semester hours

### 2208-561 (96-561) The Construction of Social Theory

Sociological theory as an artful practice. Work of theorists, such as Durkheim, Weber Marx, Freud, Skinner and Merton discussed as courses of action.

3 semester hours

### 2208-562 (96-562) Social Change

Dynamics of contemporary societies. Topics include: sacred and secular movements, technological and cultural change, protest and revolution and Twentieth Century nationalism. Effect of change are considered in relation to individuals, groups, institutions and total societies.

3 semester hours

### 2208-563 (96-563) Self and Society

Relationships between the human individual and his social environment. Topics include: formation, maintenance and transformation of self or identity, structure and processes of small groups, symbolic communication, role theory, cognitive dissonance and intergroup conflict.

3 semester hours

### 2208-564 (96-564) Social Planning

Elements that go into social planning for a community, state, or nation. Attention devoted to social context of planning, projective techniques employed and to the many instrumentalities of social planning, such as: budgets, master plans, development programs and area proposals. Human, economic, ecological and their related dimensions



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and facets. Students undertake a social planning project as part of course. Basic knowledge of statistics and use of statistical data is desirable.

*3 semester hours*

### **2208-565 (96-565) Sociology of Youth**

Socialization processes acting on young people; role of family, neighborhood, school and community; effects of failures in these socializing agencies; changing relations among age grades and quantitative studies of culture of youth with comparisons to other age grades.

*3 semester hours*

### **2208-566 (96-566) The Metropolitan Community**

Dimensions that make up the metropolitan community. Human factors involved; problems an area faces; political difficulties encountered and inter-relationship and interaction between center city and the other component parts of the metropolitan community. Primary emphasis on the New York-New Jersey metropolitan community.

*3 semester hours*

### **2208-568,569 (96-569) Seminar: Sociological Research Method I and II**

Elements of sociological methods: study design, hypothesis development, data collection techniques, use of primary and secondary sources and field techniques. Students will participate in a field research laboratory project designed and executed jointly with graduate students and faculty. The field project provides the student with a unique experience because of the diversity of communities investigated. Open only to students matriculated in the Sociology concentration or with permission of the instructor.

*3 semester hours*

### **2208-570 (96-570) Independent Projects**

Guided development and execution of an independent project. Faculty advisor for the independent project chosen by mutual agreement of student and faculty member. Advisor will guide student's project, including the data to be collected in the Social Research Method field project.

Student enrolls for Independent Projects in the Fall semester enabling student to obtain individual guidance on selection and design of independent project. Student may select Independent Projects for three or six credits or for three credits in each of two semesters.

By permission of the graduate instructor.

*3 semester hours*

### **2208-571 (96-571) Seminar: Sociological Inquiry**

Competences needed for the critical assessment of sociological literature, the formulation of productive research problems and for sophisticated pursuit of inquiry. Intensive study of a number of readings dealing with crucial areas of sociological concern. Designed to give to those students coming into the sociology concentration without a broad background in sociology, a necessary remedial experience in dealing with the more advanced sociological concepts, theories and methods.

*3 semester hours*

### **2208-572 (96-572) Selected Problems in Sociology**

Seminar on intensive exploration of a general problem in sociology and research into an aspect of the problem. Seminar formed either at initiative of a member of the department or in response to interests of a group of students, upon consent of the instructor.

*3 semester hours*

**2208-573 (96-573) Sociology of the City Sub-Areas**

Social forces in the inner city and other sub-areas with attention to the existing and emerging cultural strengths and positive supportive patterns as well as attention to problems related to poverty, housing, education, employment, leisure and aesthetics.  
3 semester hours

**2208-574 (96-574) Sociology of Cultural and Ethnic Groups**

Major cultural and ethnic groups in American society with particular attention to relationships among groups and significance of these relationships to the structure of society. Student prepares an in-depth report of a group.  
3 semester hours

**2208-575 (96-575) Sociology of Voluntary Membership Institutions**

Descriptive and theoretical analysis of constructive action patterns in leisure and other voluntary membership institutions and upon structural and functional significance of these behaviors to the American social order.  
3 semester hours

**2208-576 (96-576) The Family as an Institution**

Development of the family unit as an institution within society. Analysis of the family in contemporary American society. Family sociologically examined as an institutional form, a social system in process and as a socializing agency.  
3 semester hours

**2208-577 (96-577) Sociology of Poverty in the United States**

Sociological study of poverty as a major domestic problem. Causes and effects of social deprivation as well as to historical and contemporary efforts as its solution.  
3 semester hours

**2208-579 (96-579) Community Resources and Youth**

Resources for youth—the healthy as well as deviant child. Resources in the child's own family and neighborhood, in addition to services provided by public and private agencies. Relevant federal and state legislation.  
3 semester hours

## SPANISH

**1105-505 (46-505) History of the Spanish Language**

Survey of development of Spanish language from its origin to the present day in Spain and Spanish America. Phonological, structural and lexical evolution of Spanish from Latin ancestor, following the process of its transformation, as well as the various stages through which the language has passed from the time of its first documentary appearance.  
3 semester hours

**1105-506 (46-506) Advanced Spanish Phonetics**

Designed for Spanish teachers who wish to acquire correct pronunciation and enunciation according to the best patterns of speech of the Spanish language. Taught by the educated vernacular speakers of Spain and Spanish America.  
3 semester hours

**1105-603 (46-603) Research**

Seminar designed primarily to provide an opportunity for graduate students in foreign languages to investigate and apply techniques of research.

*Prerequisite:* Completion of at least 24 semester hours toward the Master of Arts

2 semester hours

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### **1105-516 (46-516) Medieval Spanish Literature**

Analysis of outstanding works from the Eleventh Century *jarchas* and *cantarillos de amigo* to the advent of the Renaissance.

3 semester hours

### **1105-521 (46-521) The Renaissance Novel and the Picaresque of the Baroque Period**

Creation and development of the Spanish novel from its earliest forms through the *Picaresque* novel. Representative works of the genres, emphasizing ethical and artistic values as well as influence in European literature.

3 semester hours

### **1105-522 (46-522) The Theater of the Golden Age**

Representative plays of Lope de Vega, Tirso de Molina, Calderon de la Barca and Ruiz de Alarcon read and analyzed against the historical background of Sixteenth and Seventeenth Centuries.

3 semester hours

### **1105-524 (46-524) Seminar in Cervantes**

Cervantes as a figure of synthesis in the art of the novel in Spain. *El Quijote*, the *Novelas Ejemplares* and *Persiles y Segismunda* will be analyzed.

3 semester hours

### **1105-526 (46-526) Spain in the Nineteenth Century**

Historical, cultural and political developments of Nineteenth Century Spain through readings and discussions of representative authors of romantic, neoclassicist and realistic trends.

3 semester hours

### **1105-532 (46-532) The Short Story in Spain**

Origin and development of short story in Spain from Middle Ages to present time. Different types of short stories studied in order to explain historically and sociologically the appearance of themes written in Spanish through the centuries. Provides additional understanding of Spanish people, culture and history.

3 semester hours

### **1105-533 (46-533) Contemporary Spanish Theater**

Representative plays from Benavente to Sastre read and analyzed. Critical study of the evolution of theater in light of style, technique and thought of these playwrights.

3 semester hours

### **1105-534 (46-534) Spanish Prose of the Twentieth Century**

Study, interpretation and discussion of representative Spanish writers from the "Generation of 1898" and "Modernism" to post-Civil War. Development of latest trends in contemporary Spanish prose.

3 semester hours

### **1105-535 (46-535) Contemporary Spanish Poetry**

Development of contemporary Spanish poetry from the "Generation of 1898" and "Modernism" to the present. Chronological division and general aesthetic tendencies of each movement.

3 semester hours

### **1105-540 (46-540) Sarmiento and His Times**

Culture and civilization of the Rio de la Plata region and Chile from the period of Independence to the beginning of *Modernismo* through the most important figure of this period. Relations with the United States discussed.

3 semester hours



**1105-541 Spanish-American Novel to 1900**

Extensive reading and intensive discussion of representative Spanish-American novels from the narratives depicting life in early colonial times. The novel of adventure, the *picaresque* tale, the romantic novel, the *costumbrista* novelists and the naturalists. Relation to the American themes studied and analyzed.

3 semester hours

**1105-542 (46-542) Spanish-American Novel of the Twentieth Century**

Spanish-American novel of the Twentieth Century, beginning with aesthetic novel of Modernism. Novel of Mexican revolution, psychological novel, novel of the land and of social reform. Existentialist as well as the new-spiritual trends of the novel in Spanish America evaluated in relation to novels of the United States and the European Countries, written during this century.

3 semester hours

**1105-543 (46-543) Spanish-American Theater of the Twentieth Century**

Representative dramatists after Florencio Sanchez, and to Rene Marques and Carlos Solarzano. New trends in Spanish-American Theater and its relation to the Theater in Europe and the United States.

3 semester hours

**1105-546 (46-546) Seminar in Modernismo**

Critical re-evaluation of the "Modernist" phase of Spanish-American poetry (1880-1917). Individual techniques and characteristic use of specific images, reliance on synesthesia and the attempt to incorporate pictorial elements into poetry which welded these individuals into a genuine poetic movement. Each participant presents a piece of original research at a designated time during the course-term.

Limited to 12 students

3 semester hours

**1105-548 (46-548) Spanish-American Essay**

Selected Spanish-American authors represent a cross section of all Spanish-speaking social classes and tendencies in order to evaluate their reactions through their written expressions. Comparison of main essayists with their contemporaries in Spain and in the United States show the tenor of political thought, inter-influences between the United States and Spanish America and the most important viewpoints of Spanish-American intellectuals.

3 semester hours

**1105-549 (46-549) The Short Story in Spanish America**

Spanish-American short story from its origins in colonial times. Representative authors included to show evolution of the genre up to the present time.

3 semester hours

**1105-550 (46-550) Spanish American Theater to 1910**

Spanish-American Theater from the pre-Columbian *areitos* of the Antilles, the more complex theater of the pre-Columbia cultures in Meso-America and the Incas. An introduction to the Colonial drama initiated by the Missionaries. Baroque period, especially the dramatic works of Sor Irana Ines. Neo-classical and *costumbrista* theater surveyed. Intense dramas of Florencio Sanchez.

3 semester hours

**1105-551 (46-551) Contemporary Spanish-American Poetry**

Development of Spanish-American poetry from the anti-modernist reaction and the four major feminine poets, as antecedent for appreciation and evaluation of Neruda,



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Pellicer, Marichal, Borges, Gorostiza, Carrera Andrade, Florit, Villaurrutia and Octavio Paz. Readings from recently published books and magazines in wide circulation in Spanish America.

*3 semester hours*

0603-500 (21-500) Independent Study

1007-500 (21-500) Independent Study

1506-500 (21-500) Independent Study

Undertaking of course work in one of the regularly listed catalog courses in a depth greater than that normally pursued in the course. Students will arrange the nature of the work with the instructor prior to the second meeting of the course. Written permission must be obtained from the graduate advisor prior to registration. Independent study may be elected more than once during the graduate program. Credit by arrangement.

## SPEECH AND THEATER

### Speech

#### **1506-501 (21-501) Survey of Research Methods**

Various approaches to research in rhetorical theory, public address, interpersonal communication, theater history, dramatic production and contemporary theatrical idiom. Specific attention to historical, critical, descriptive, quantitative and experimental models and methodologies. Individual student needs and interests considered.

*Prerequisite:* 1506-100, 1506-204, 1506-356, or permission of instructor

*3 semester hours*

#### **1506-503 (21-570) Advanced Voice and Speech Improvement**

To refine the voice and diction patterns of the advanced student. Provides student with techniques of evaluating and improving speech of others in a practical setting.

*3 semester hours*

#### **1506-504 (21-572) Advanced Applied Phonetic Study**

*Intensive and extensive practice in the phonetic approach to erasing and acquiring typical and atypical American and foreign speech sounds and patterns for stage, radio, TV and classroom.*

*3 semester hours*

#### **1506-509 (21-598) Special Problems in Speech and Theater**

Specific problems in theater, speech and mass communication. Work includes reports, papers, panel discussion and experimentation.

*3 semester hours*

#### **1506-511 (21-580) Revolutionary Rhetoric**

Acquaint student with the "revolutionary" speaking of the last decade. Speakers involved with civil rights, university reform and war protests studied in their historical perspective. Student will function as a rhetorical critic, evaluating speaker and audience in order to assess the ultimate effects of revolutionary speaking.

*3 semester hours*

#### **1506-519 (21-585) Seminar in Rhetorical Criticism**

Functions, types and problems of rhetorical criticisms. Comparison of Aristotelian and non-Aristotelian approaches.

*3 semester hours*

**1506-521 (21-525) Competitive Forensics**

Techniques for directing and coaching intra and interscholastic forensic events. Discussion, debate, parliamentary congresses and speaking, reading and performing contests. Tournament administration studied at local, regional and national level and includes scheduling, rules, publicity, housing and awards.

3 semester hours

**1506-565 (21-565) Advanced Oral Interpretation**

Techniques in interpretation of poetry and prose. Extensive practice provided in analysis and presentation of various types of literary material (short story, ballad, narrative, sonnet, etc.) for use in classroom and special programs.

*Prerequisite:* 21:106 or permission of the instructor

3 semester hours

## Theater

**1007-504 (21-537) Contemporary Experimental Theater**

Examination of current philosophies of theater and their affect on training of actors, writing of plays and production. Visits to productions at theaters such as LaMama, Open Theater, Public Playhouse and other off-Broadway groups.

3 semester hours

**1007-507 (21-567) Seminar in Dramatic Production**

Seminar is for advanced play-production students. Each member of the class pursues projects in keeping with his needs or interests in both technical and directorial aspects of play production. Supervisory assignments made in connection with current program of plays. Enrollment is only open to matriculated students or with permission of instructor.

3 semester hours

**1007-508 (21-552) Internship in Dramatic Production**

Practical experience in dramatic production under supervision of staff member of professional, semi-professional, community or educational theater, on or off campus. Student work as an assistant to director, costumer or makeup supervisor. Contract of studies will be drawn between supervisor and student.

*Prerequisite:* 12 semester hours in acting-direction-costume-makeup

*Application through the Department prior to registration*

3-7 semester hours

**1007-513 (21-542) Modern and Contemporary Theater History**

Basic aspects of theatrical history associated with Western culture from 1890 to the present. Understanding and appreciation of the contemporary theatrical scene and its direct heritage. Some attention will be paid to American theater but major emphasis on British and Continental developments.

3 semester hours

**1007-514 (21-549) Non-Western Drama and Theater**

Various aspects of the theatrical forms of non-western cultures in both historical and contemporary context. Specific attention paid to cultures associated with China, Japan, India, Southeast Asia, Africa. Dramatic literature of these cultures. Study of theatrical practices employed to stage various dramatic forms.

3 semester hours

**1007-517 (21-509) Theater Criticism**

Development of standards and values, both personal and historical, by which plays are

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judged. Critiques with constructive suggestions which manifest an understanding of how theater communicates in all of its various facets. Mandatory attendance at community and professional productions.

*3 semester hours*

### **1007-525 (21-517) Advanced Acting Workshop**

Advanced course provides acting student with challenging roles, problems of style and control, as well as extensive independent study.

*Admission by audition and instructor's permission only*

*3 semester hours*

### **1007-535 (21-516) Advanced Directing Workshop**

Directing in repertory and period plays. Preparation for thesis production. When possible, the student will produce a full-length play and complete a production notebook.

*Prerequisites: 407, 416 or permission of instructor*

*3 semester hours*

### **1007-545 (21-563) Scenic Design I: The Legitimate Theater**

Stage design as related to the play, director and audience. Survey of styles of design and use of perspective sketch and stage model in planning stage setting. Application of stage construction techniques used to demonstrate the necessity of scene design in planning stage production.

*Prerequisite: permission of the instructor*

*3 semester hours*

### **1007-546 (21-564) Scenic Design II: The Performing Arts**

Design problems inherent in diverse forms of production, musical comedy, opera and dance. Physical qualities of space and area staging investigated, along with those of a more conservative, proscenium approach. Each form analyzed with respect to challenges unique to that form. Several projects will be done, involving consideration of both lighting and scenic design.

*3 semester hours*

### **1007-554 (21-513) Stage Lighting Design**

Introduction to light from both pragmatic and aesthetic points of view. Functions and qualities of light as a design media investigated, coupled with an exploration of types of control and instrumentation available to designer. Application of basic uses of light in theatrical situation will be done through development of several lighting designs.

*3 semester hours*

### **1007-555 (21-551) Advanced Problems in Technical Production**

Physical resources available to technician. Exploration of new materials and techniques as well as extensive work in standard techniques. Knowledge of drafting techniques helpful.

*3 semester hours*

### **1007-575 (21-566) Seminar in Costume Design and Construction**

To provide experimentation with research procedure, technique and application, in the realization of the total design concept as one visual element of theater art. Special emphasis on interdependence of craft and art.

*Prerequisite: 1506-426 or permission of the instructor*

*3 semester hours*

### **1007-580 (21-502) Theater Management**

The theater as a business enterprise. Various production units discussed; box-office



procedures, standard contractual arrangements, unions and their regulations, subscription management. Manager as a community relations specialist, with emphasis on publicity and the theater's role as a community resource.

3 semester hours

## Public Media Arts

### **0603-580 (21-554) Internship in Public Media Arts**

Off campus assignments in practicum settings: Radio and television broadcasting facilities and other learning sites. Amount of time spent in practicum setting is variable and made by arrangement. Provides students with a broad, balanced and locally supervised experience.

*Prerequisite:* permission of the instructor

*Application through the Department prior to registration*

3-7 semester hours

### **0603-581 (21-520) The Broadcast Media and Mass Culture**

A survey of the influences and effects of the broadcast media on society. Special emphasis will be placed on the policy decisions and the influence of the broadcast media as conveyors of information and stimulus for change in the American mass culture.

3 semester hours

### **0603-582 (21-528) Techniques of Broadcast Communication**

An investigation of the techniques used and other ethics involved in the production of informative, entertainment, persuasive and public relations material for mass public consumption by the broadcast media in the United States.

3 semester hours

### **1506-533 (21-559) Lecture and Lecture Recital**

Study of professional work on public platform climaxed by lecture or recital of a professional nature.

1 semester hour

### **1506-536 (21-524) Seminar in Persuasion**

Critical examination of psychological, sociological and cultural dimensions of persuasive discourse.

3 semester hours

### **1506-560 (21-553) Internship in Oral Communication**

Off-campus assignments in practicum settings. Assignments range from serving on campaign speaker's or public speaker's speech staff to aiding a high school or college forensic program by coaching student and/or conducting forensic tournaments. Amount of time spent in practicum setting is variable and made by arrangement. Every effort made to provide students with a broad, balanced and locally supervised experience.

*Prerequisite:* Public Speaking, Group Discussion, Argumentation and Debate, Contemporary Public Address on Graduate Level. Permission of the instructor

*Application through the Department prior to registration*

3-7 semester hours

0603-599 (21-600) Independent Study

1007-599 (21-600) Independent Study

1506-599 (21-600) Independent Study

Individual pursuit of a research topic undertaken free of any course structure. Student's area of study and pursuit of research will be arranged with graduate advisor and course advisor appointed by him prior to the semester in which student registers for indepen-



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dent study. Work for this course may be spread over two semesters, in which case the student should register only for the semester in which the work will be completed.

### *Credit by arrangement*

Study of professional work on public platform climaxed by lecture or recital at a professional nature.

0603-600 (21-599) Thesis

1007-600 (21-599) Thesis

### **1506-600 (21-599) Thesis**

Individual research or creative project to be selected under advisement of a faculty committee. An oral exam will be given upon completion of the project. The student should register for this course only for the semester in which work will be completed.

*Written permission for registration from the Graduate Advisor is required.*

4 semester hours

## STUDENT PERSONNEL SERVICES

### **0826-560 (36-560) Medical Problems in Education**

Role of the educator in relation to the following subject areas: childhood, chronic and contagious diseases; nutritional problems; narcotics and psycho-socio-medical pathologies. Impact of health problems on the family, school and community.

3 semester hours

### **0826-562 (36-562) Social Case Work I**

Review of principles in social case work as they relate to the school setting. Theoretical development of social work norms and the function and role of the school social worker (visiting teacher). Cases which have been developed by social workers will be studied and school experiences will be provided.

3 semester hours

### **0826-565 (36-565) The Role of the School Social Worker**

Areas of study: intensive examination of the historical development of the role of the School Social Worker, as found in the literature; an examination of the contemporary scene as social work relates to other emphasis in the helping professions and some original investigations in the area of role theory, utilizing the "Role Analysis Paradigm."

3 semester hours

### **0826-570 (36-570) Counseling Adults**

Techniques appropriate to the counseling of adults. Identification of problem areas common to students of college age, to parents and non-school adults. Case studies with ample opportunity for the student to engage in supervised practice.

*Prerequisite:* Principles of Guidance and Counseling (0826-580).

3 semester hours

### **0826-579 (36-579) The Use of Tests in Counseling**

Techniques for using test results; for interpreting test results to teachers, administrators, parents and students. Use of appropriate statistical analysis for research and program development. Laboratory techniques in administering, scoring and interpreting tests. Planning of the testing program for the Elementary and the Secondary School.

*Prerequisite:* Testing and Evaluation (0824-578), or equivalent.

3 semester hours

### **0826-580 (36-580) Principles of Guidance and Counseling**

Philosophy of guidance, history of the guidance movement, need for guidance presented by children and adolescents. Methods of gathering useful data, school records,

exploratory activities, tests, inventories, the case study approach, occupational information and occupational data and general methods of guidance with special stress on interviewing and counseling of students.

3 semester hours

**0826-581 (36-581) Community Resources for Guidance**

Various agencies, industries and institutions available in the surrounding communities for use in guiding students. Location and nature of these facilities and techniques for arranging student interviews and visits. Class discussion and personal research supplemented by field trips.

*Prerequisite:* Principles of Guidance and Counseling (0826-580).

3 semester hours

**0826-582 (36-582) Vocational Guidance and Occupational Information**

Principles of vocational education. Techniques of counseling high school youth who want pre-employment training and counselors of out-of-school groups who are attempting to make readjustments to occupational life. Guidance techniques for job preparation and readjustment, the matching of educational and personal abilities to job specifications, the effects of social legislation on the employment of youths and a study of techniques used in determining occupational needs and occupational changes.

*Prerequisite:* Principles of Guidance and Counseling (0826-580).

3 semester hours

**0826-583 (36-583) Educational Guidance**

Facilities available for education after high school graduation, the problem of further training for dropouts and the academic problems of students while in school. Brief survey of colleges and college admission procedures.

*Prerequisite:* Principles of Guidance and Counseling (0826-580).

3 semester hours

**0826-585 (36-585) Group Guidance and Counseling Activities**

Various techniques for helping individual pupils and for using group activities. Includes role-playing as a guidance technique. Group activities considered include home rooms, activity periods, occupation courses, student field trips, placement follow-ups, college nights and career days.

*Prerequisite:* Principles of Guidance and Counseling (0826-580).

3 semester hours

**0826-586 (36-586) Elementary School Guidance Services**

Guidance services that may be offered in grades kindergarten through six. Established in the public schools, the guidance program envisions supervision from the kindergarten through graduation at grade twelve.

*Prerequisite:* Principles of Guidance and Counseling (0826-580).

3 semester hours

**0826-587 (36-587) Administration and Supervision of Guidance Programs**

Complex aspects of supervision and administration of a guidance program. Developing and administering programs of student registration theory and techniques of scheduling and supervisory responsibilities of the director of guidance. Coordinating guidance activities in a multi-school district. Examination and evaluation of current guidance practices leading to the formation of proposals for improvement and possible inclusion, in guidance programs where the student is working as a counselor and/or director.

*Prerequisite:* Principles of Guidance and Counseling (0826-580) and 6 semester hours in the Personnel Services Program.

3 semester hours

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### **0826-588 (36-588) Techniques of Interviewing and Counseling**

Advanced techniques in the counseling of individual students. The directive, non-directive, client-centered and role-playing approaches, as well as the case study method. Demonstration and practice with these techniques implemented with tape recordings, one way screens and closed circuit television.

*Prerequisite:* Principles of Guidance and Counseling (0826-580).

2 semester hours

### **0826-589 (36-589) Student Personnel Services in Higher Education**

Student personnel functions in two-year and four-year colleges. Areas to be included are: personal counseling, financial aid, dormitory management, health program, student activities and social programs; course selection, job placement, college admission and academic retention, administration and supervision of the program.

*Prerequisite:* Principles of Guidance and Counseling (0826-580).

3 semester hours

### **0826-650 (36-650) Research Seminar and Thesis Writing**

During the time that the student is preparing the research document he should enroll in 0826-650, Thesis Supervision. This entitles him to faculty advisement and conferences. If the student does not complete the document during the semester in which he has enrolled for 0826-650, he is required to re-enroll in 0826-650 each semester (without credit) until the document is completed.

*Prerequisite:* Approval of advisor.

3 semester hours

### **0826-654 (36-654) Field Work and Practicum in Guidance and Counseling**

Various aspects of guidance gained through experience in agencies actually dealing with such problems. Observe and participate in activities of the assigned agency and write full accounts of observations and experiences. Some time is spent in discussing and evaluating experiences and relating them to the literature of the subject.

*Prerequisite:* Principles of Guidance and Counseling (0826-580).

3 semester hours

### **0826-655 (36-655) Field Work and Practicum in Social Work**

Participate in school social work. Diagnostic skills, interviewing techniques, case recording, individual and group therapy and team approach. Under guidance of a certified, experienced school social worker, the student will develop an understanding of the use of community resources. Observe special services (school social worker, psychologist, psychiatrist, speech or reading specialist and teacher) in action as a therapeutic plan is developed for the school pupil.

*Prerequisite:* Principles of Guidance and Counseling (0826-580) and 12 semester hours in the Personnel Services Program.

3 semester hours

### **0826-670 (36-670) Techniques of Evaluation**

Provides a background in the design, use and interpretation of statistical evidence.

*Prerequisite:* Approval of advisor.

3 semester hours

### **0826-680 (36-680) The Student Personnel Services Team**

Establish the philosophy, membership, roles and functions of the various services that compose the Personnel Services team.

*Prerequisite:* Approval of advisor.

3 semester hours



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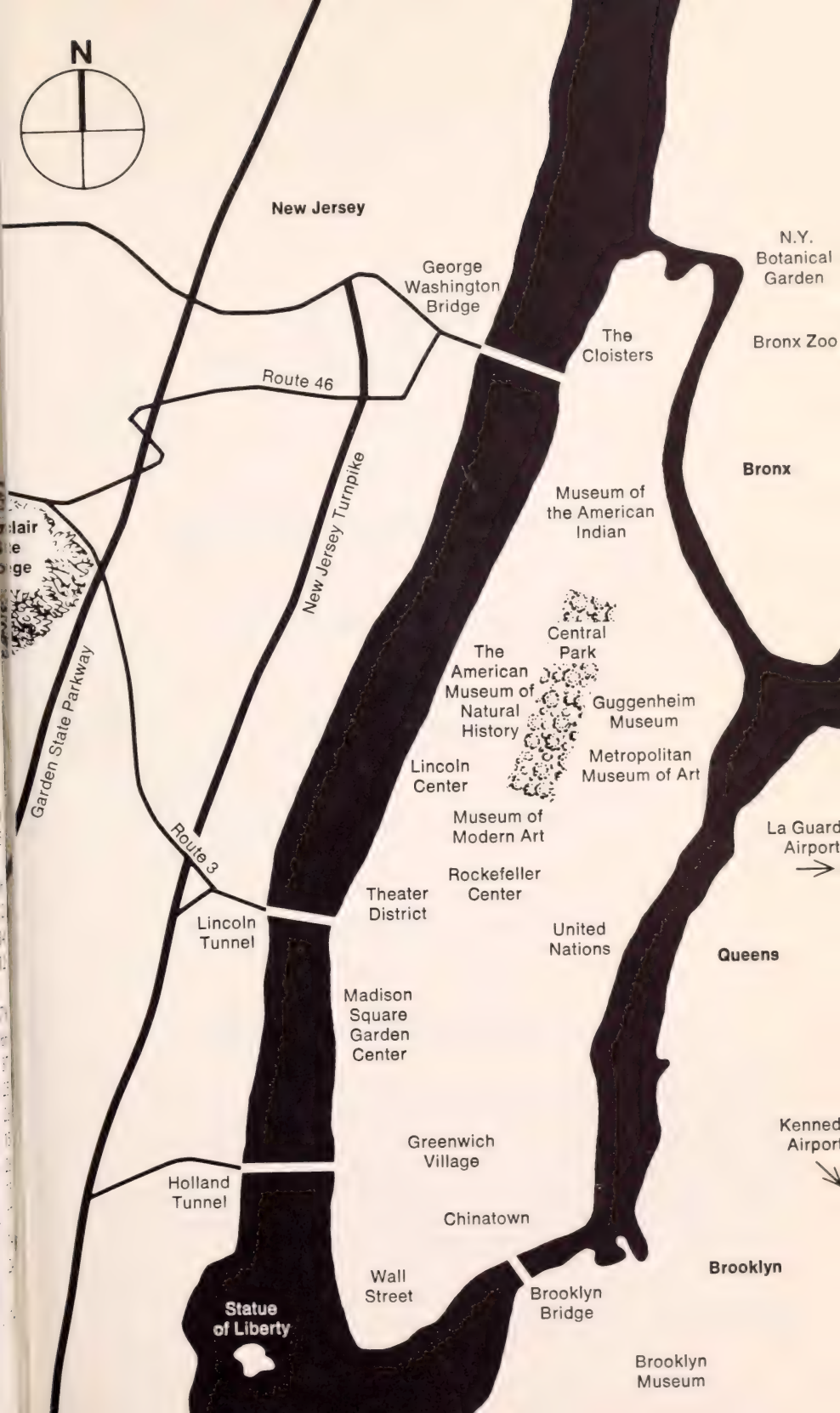
*Assistant Professor of Mathematics in the School of Mathematics and Science*  
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New Jersey

George Washington Bridge

The Cloisters

N.Y. Botanical Garden

Bronx Zoo

Route 46

New Jersey Turnpike

Bronx

Museum of the American Indian

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Garden State Parkway

The American Museum of Natural History

Central Park

Guggenheim Museum

Metropolitan Museum of Art

Lincoln Center

Museum of Modern Art

Rockefeller Center

Theater District

United Nations

La Guardia Airport



Queens

Lincoln Tunnel

Madison Square Garden Center

Greenwich Village

Kenned Airport



Holland Tunnel

Chinatown

Brooklyn

Statue of Liberty

Wall Street

Brooklyn Bridge

Brooklyn Museum

## **CREDITS**

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Produced and edited by the College's Office of Development and College Relations,

Fredric M. Carlin, Director; Barbara B. Ryan, Assistant to the Director.

## **THE SCHOOLS OF MONTCLAIR STATE COLLEGE**

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**School of Educational and Community Services**

**School of Fine and Performing Arts**

**School of Humanities**

**School of Mathematics and Science**

**School of Professional Arts and Sciences**

**School of Social and Behavioral Sciences**



MONTCLAIR STATE COLLEGE  
DIVISION OF GRADUATE STUDIES  
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Montclair  
State  
College

Montclair, New Jersey

1973-74

1974-75





# ACADEMIC CALENDAR

## Fall, 1973

September 4, 5	New student orientation
September 6 - December 22	Fall semester classes
(November 22-25	Thanksgiving recess)
January 7-12	Final examinations

## Spring, 1974

January 4 - March 23	Spring semester classes
March 24-31	Spring recess
April 1 - May 18	Spring semester classes
(April 12-15	Easter recess)
May 20-25	Final examinations
June 2	Commencement

### EFFECTIVE SEPTEMBER, 1973

1. ALL students — matriculated and non-matriculated, must file application and be admitted.
2. New dates for filing applications are:  
July 15 for Fall Admission  
November 15 for Spring Admission  
April 15 for Summer Admission

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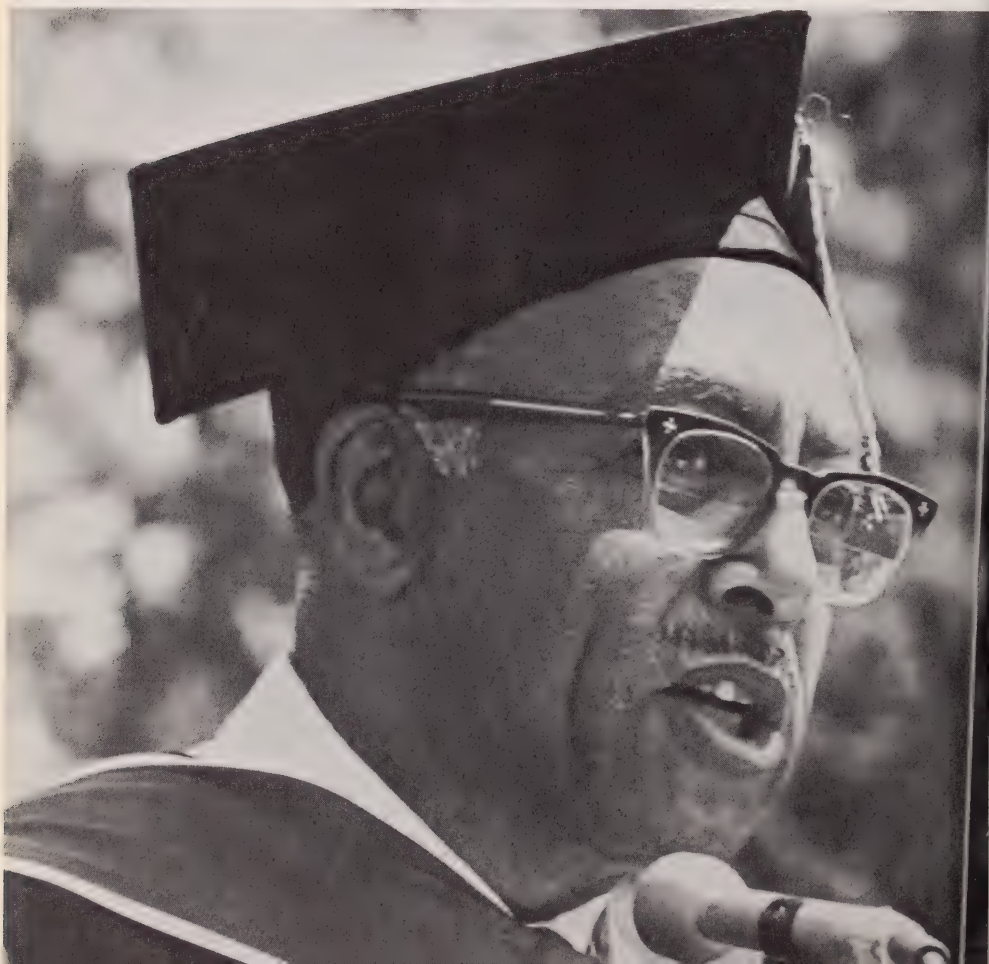
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## ABOUT THE COLLEGE

Montclair State College is a publicly-supported institution of higher learning, offering programs on the master's and bachelor's degree levels to 13,300 students.

The College, founded in 1908 as a Normal School, now includes six undergraduate schools and a Division of Graduate Studies. The Graduate Division was established in 1932.

Although the College is large, its individual schools and programs are small enough to ensure intimate instruction and advisement for each student. In keeping with a liberal tradition dating from its founding, the College is open to all qualified students without restriction as to religion, national or racial origins, age or sex.

### Faculty

A full- and part-time faculty of 480 men and women teach more than 1500 different courses. Through extensive summer and evening programs, educational opportunities are opened to ambitious students who cannot give full time to their studies.

### History and Governance

From 1908 through 1927, the College was a Normal School, oriented to the education of public-school teachers. In 1927, the College became the State Teachers College at Montclair to prepare secondary-school teachers.

In July, 1958, the College assumed its present name, Montclair State College, to reflect its stress on traditional graduate and undergraduate education in the liberal arts and sciences. Since that time, the College has placed increasingly greater emphasis on the training of future scholars, government and business administrators and managers, lawyers, physicians, dentists, scientists and researchers, journalists and writers, while maintaining its traditional excellence in secondary-school teacher education.

The New Jersey Higher Education Act of 1966 transferred governance of the College from the State Department of Education to the College's own board of trustees. This board consists of nine citizens of New Jersey, appointed by the Governor of the State on the recommendation of the State Board of Higher Education, and the president of the College, *ex officio*. This change in the governance of the College, which took effect July 1, 1967, gave the College increased independence over the management of its own programs.

### Goals of the College

Since the establishment of the College's board of trustees, the program offerings at the College have been constantly expanded. Today, as a result of these extensive programs on graduate and undergraduate levels, the College is a multi-purpose institution, offering a broad range of courses and programs to students with many varying needs, interests and career aims.

Throughout its existence, Montclair State College has been loyal to the basic needs of higher education: recruiting a scholarly, dedicated faculty; selecting earnest students of high academic standing; devising and operating



as full and thorough a curriculum as possible; providing extracurricular experiences to extend and enrich the cultural horizons of the college community; keeping alert for opportunities to make the educational process increasingly effective and emphasizing the importance of the individual within a technological society.

### **Location**

The College is located on a 200-acre campus in Upper Montclair, New Jersey, a magnificent suburban community fourteen miles from midtown Manhattan.

As a result of the College's proximity to New York City, the students at Montclair State enjoy an opportunity to enrich their education through participation in the cultural, social and educational life of the metropolis of which we are part.

### **Financial Support for the College**

The College derives its primary income from the State of New Jersey. This basic income is supplemented by grants from government agencies and private foundations, and gifts from friends, alumni, corporations and other private philanthropic sources.

### **Accreditation and Memberships**

The College is fully accredited by the Middle States Association of Colleges and Secondary Schools. In addition, the National Council for the Accreditation of Teacher Education has granted the College full accreditation for the preparation of elementary and secondary school teachers and school service personnel.

The College is a member of the Council of Graduate Schools in the United States, the American Association of State Colleges and Universities, the American Council of Education, the New Jersey Association of Colleges and Universities and the American Association of Colleges for Teacher Education. Women graduates of the College are accepted for membership in the American Association of University Women.





## GENERAL INFORMATION

### About the Graduate Programs

The College granted its first Master of Arts degrees to 13 students in June, 1933. In 1971, Master of Arts degrees were awarded to 548 students, of whom 179 studied in the School of Education (now School of Educational and Community Services), 136 in the School of Social and Behavioral Sciences, 90 in the School of Professional Arts and Sciences, 68 in the School of Mathematics and Science, 43 in the School of Humanities and 32 in the School of Fine and Performing Arts.

#### Division of Graduate Studies

Graduate programs at the College are organized within the Office of the Vice President for Academic Affairs into a Division of Graduate Studies. The administrative officer of the division is the dean of graduate studies.

#### Graduate Council

The Graduate Council assists the dean of graduate studies with regard to developing and administering general policies for graduate education at the College. The dean of graduate studies is chairman of the Graduate Council.

Members of the Council are the vice president for academic affairs, the dean of each of the College's six schools, a faculty member and graduate student from each school of the College, the director of the Evening Division and Summer Session and the head librarian.

### Program Offerings

Each of the six schools at the College offers programs leading to the Master of Arts degree.

#### SCHOOL OF EDUCATIONAL AND COMMUNITY SERVICES

Educational Leadership (Administration and Supervision)\*

Reading

Student Personnel Services\*

Teaching (Master of Arts in Teaching)

#### SCHOOL OF FINE AND PERFORMING ARTS

Fine Arts

Music

Speech and Theater

#### SCHOOL OF HUMANITIES

English and Comparative Literature

French

Spanish

#### SCHOOL OF MATHEMATICS AND SCIENCE

Biology

Chemistry

Geoscience

Mathematics (Pure and Applied Mathematics, Computer Science, Mathematics Education)

\*Sixth-year programs are offered in Educational Leadership and in Student Personnel Services.

**SCHOOL OF PROFESSIONAL ARTS AND SCIENCES**

Business Education  
Distributive Education  
Environmental Education  
Health Education  
Home Economics  
Industrial Education and Technology  
Physical Education

**SCHOOL OF SOCIAL AND BEHAVIORAL SCIENCES**

Communication Sciences and Disorders  
Educational Psychology  
Psychology\*\*  
Social Sciences

---

\*\*A sixth-year program is offered within the Department of Psychology for the school psychologist.



## **College Facilities and Educational Services**

### **Library**

The Harry A. Sprague Library is an attractive, modern, air-conditioned building located centrally on the campus. This important campus facility is named in honor of Harry A. Sprague, who served as president of Montclair State College from 1927 to 1951. The library includes study tables, individual study desks, group conference rooms, faculty carrels and lounge areas. Smoking lounges are provided on the ground floor where a student typing room is also located.

A knowledgeable staff of librarians is on hand to guide students in the use of the library's substantial and constantly expanding collection of books and periodicals. Liberal lending regulations are designed to facilitate the students' access to this collection. Xerox copying machines are available for student use at nominal cost. Periodicals, books and documents in microtext are accessible through the library's microfilm, microfiche and microcard readers.

The general resources of the library are augmented by a Curriculum Laboratory; a rapidly growing collection of United States and New Jersey government publications and special collections that include the China Institute Library, a New Jersey collection and four important poetry collections for special research.

### **Media Services Center**

The Media Services Center has been an instructional support service of the total College community for over thirty years. The Center's primary function has been to provide instructional materials of non-book nature for use by faculty and students.

The College has always had a strong student activities program and in many instances the program requires the use of communication media and ancillary materials. The Media Services Center has undertaken to provide service to this important academic community endeavor.

The Center provides support services rather than direct instruction. The Center centralizes the purchase, distribution and circulation of College audio-visual equipment. It maintains, services and repairs all audio-visual equipment on campus.

### **Student Parking Facilities**

The college maintains several parking lots for use by students. These areas are designed on any map of the campus. The college assumes no responsibility for cars or their contents while parked on college property.

### **Health Services**

There is a registered nurse on duty in the College Health office. This office is located in the west wing of Russ Hall. Emergency medical care is also available.

Regular office hours are from 8 a.m. until 4 p.m. After 4 p.m. this office is for emergencies only. Between 10 p.m. and 7:45 a.m. call 893-4361 for emergency services.

## **Financial Assistance**

### **Graduate Teaching Assistantships**

There are usually a very limited number of teaching assistantships available in some of the instructional departments to qualified graduate students. Applications should be requested from the Division of Graduate Studies.

### **Opportunities for Part-Time Employment**

Montclair State College, through its Student Personnel Office, offers opportunities for students who desire off-campus part-time work after school, weekends and during vacations. The employment service does not guarantee jobs but there is no scarcity of opportunities.

Additional opportunities are available on campus for students to earn income as laboratory or dormitory assistants, secretarial and clerical assistants, or tutors.

### **National Defense Student Loan Program**

To be eligible for a loan, an applicant must be a citizen or national of the United States, or must have such immigration status and personal plans as to indicate that he is in the United States for other than a temporary purpose. Therefore, due to their inherently temporary nature, persons who are in this country on such visas as an "F" student visa or a visitor's visa, are not eligible.

The applicant must be a full-time college student on the graduate level in an institution of higher education participating in the National Defense Student Loan Program or be accepted for admission as a full-time student in such an institution.

Graduate students may borrow up to \$2,500 per year to a total of \$10,000. The maximum a student may borrow depends upon the government's appropriation and number of applicants. The borrower must sign a note for his loan.

The interest rate on these loans is three percent per year. Interest on the loan begins one year after the student ends his full-time studies. The first payment on the loan is due two years after the end of the student's full-time studies. The National Defense Student Loan Act provides that repayments are to be completed within ten years.

### **New Jersey State Student Loan Program**

Loans are made by any participating banking or savings and loan institution in the state. Loans are guaranteed by the New Jersey Higher Education Assistance Authority.

A list of banks participating in this program may be obtained from the New Jersey Higher Education Assistance Authority or the College's financial aid advisor.

Maximum loan amounts are: Each graduate year—\$1,500.

Total loans including graduate year may not exceed \$7,500.



### **Woodrow Wilson National Fellowship Foundation\***

The foundation grants fellowships to first year graduate students interested in college-teaching careers in the liberal arts fields. It designates approximately 1,000 candidates for other graduate school fellowship awards. Candidates, usually college seniors, who are citizens or permanent residents of the United States or Canada, must be nominated by faculty members by October 29 of the year preceding the year of the award.\* The criteria for selection are quality of intellect, preparation for graduate study, a reading knowledge of at least one foreign language, character and personality. Approximately 150 Fellows receive a living stipend of \$2,000 plus allowances for children and tuition fees.

The foundation also awards 200 Dissertation Year Fellowships annually to graduate students in the humanities and social sciences who expect to complete their dissertations in their third and fourth year of graduate study. Dissertation awards are for a period not to exceed 15 months. Martin Luther King, Jr. Fellowships are for black veterans to pursue graduate and professional training for public service careers. For further details, address the Woodrow Wilson National Fellowship Foundation, Box 642, Princeton, New Jersey 08540.

### **Foreign Area Fellowship Program**

The American Council of Learned Societies and the Social Science Research Council, with support from the Ford Foundation, offer a limited number of fellowships for research and graduate training in the social sciences, humanities and the physical and natural sciences relating to Africa, the Near East, South Asia, Southeast Asia and East Asia, Latin America and the Caribbean, the Soviet Union and Eastern Europe and Western Europe. Inquiries should be sent to 110 East 59th Street, New York, New York 10022.

### **John Hay Whitney Foundation**

Approximately 30 Opportunity Fellowships are offered for graduate study, primarily in the United States but they may be used abroad. Stipends normally range from \$1,000 to \$3,000 for one year. They are open to U.S. citizens of superior promise with racial or cultural backgrounds or regions of original residence: Blacks, Spanish-Americans, American Indians, residents of Guam, Puerto Rico, Samoa, the Virgin Islands, the Appalachian and Ozark Mountain areas and the Trust Territories. Applications by November 30. Located at 111 West 50th Street, New York, New York 10020.

### **Alliance Francaise de New York**

The foundation awards all scholarships for fields of study at the graduate level as a means of fostering better understanding by enabling students of France to study in the United States and students of the United States to study in France. Located at 527 Madison Avenue, New York, New York 10022.

\*Temporarily suspended.

## TUITION AND FEES\*

### Tuition Charge

Graduate tuition, for those students who hold at least a bachelor's degree, per semester hour of credit ..... \$35.00

### Fees (Non-refundable)

*Registration fee*, paid each time a student registers ..... \$ 2.00  
*Student Center Building fee*, paid each time a student registers, \$2 per semester hour to a maximum of ..... \$22.00  
*Late registration fee*, for all students who register after the regular registration period ..... \$ 5.00  
*Change of Class Schedule fee*, for students who, after their initial registration each semester, make a change or changes in their original class schedule other than withdrawal from a course ..... \$ 5.00

### Application Fee

Each application for admission must be accompanied by a non-refundable application fee of ..... \$10.00

### Transcript Fee

For each copy of a student's transcript ..... \$ 1.00  
 Inquiries about procedures for requesting transcripts should be directed to the Registrar.

### Payment Instructions

All checks should be made payable to: Montclair State College.

### Refunding of Fees

Refunds are made under circumstances detailed below if a student officially withdraws from a class by filing a written application with the Division of Graduate Studies.\*

The following schedule of refunds has been established by the New Jersey Board of Higher Education and is uniform for all New Jersey state colleges:

<i>Period of Withdrawal</i>	<i>Percent Refunded</i>
Before course begins .....	100%
During first third of course .....	60%
Between first third and first half of course .....	30%
During last half of course .....	No Refund

The percentage of refund is based on the total obligation. A reduction in a student's course load is equivalent to a withdrawal. The above policy applies to such reductions. Tuition and service charges are refunded in full if classes are discontinued by the College.

In computing refunds, the date of withdrawal is the date on which the written notice of withdrawal is received in the Division of Graduate Studies.

\*Subject to change at any time by action of the New Jersey Board of Higher Education.

## **ADMISSION TO GRADUATE STUDY**

The Division of Graduate Studies at Montclair State College invites applications from highly-qualified graduates of baccalaureate programs in the liberal arts, the sciences, business administration, teacher education and other fields.

Since the number of graduate students who can be accommodated is limited, the College may only admit those applicants who demonstrate the greatest tangible promise of scholarly achievement.

A bachelor's degree from an accredited college or university in the United States or abroad is a basic requirement for admission, but is not the sole factor. Applicants must clearly demonstrate their ability to benefit from Montclair State College's programs.

Admission to a graduate degree program is restricted to applicants whose undergraduate records and scores on the Aptitude Test of the Graduate Record Examination (GRE) indicate a high degree of probable success. To be admitted to a particular degree program, the applicant must be accepted by the department offering that program and approved by the Director of the Graduate Division. Applicants should take the GRE Aptitude Test early enough to have the test scores sent to the Director of Graduate Studies prior to enrollment in a graduate degree program.

A limited number of special (non-degree) students will be admitted to graduate courses who, while not directly interested in pursuing any specified degree program, want to take individual courses in particular fields of study. All such applicants must present evidence of an acceptable baccalaureate degree from an approved college or university. They must also submit a request for a program of study to meet the objectives stated in the application. Admission on a non-degree basis does not in any way imply acceptance as a candidate for the Master of Arts degree.

### **Application for Admission**

An application for admission may be obtained from the Graduate Admissions Office. The completed application must be submitted to the office with a non-refundable fee of \$10; this fee should be sent by check or money order.

Transcripts of all previous graduate and undergraduate college study must be sent directly to the Graduate Admissions Office by the student's college. The applicant for a degree program should make arrangements to have an official notification of his Graduate Record Examination score sent to the Graduate Admissions Office.

Completed applications for degree programs, including all transcripts, test scores and fee payments, must be on file in the office by July 15 for Fall admission, by November 15 for admission the following Spring and by April 15 for admission in the Summer.

### **Acceptance and Conference with Advisor**

After an analysis of the credentials of the applicants, those who meet the college admission requirements will confer with the graduate advisor of the department in which the applicant has chosen to study. The advisor will develop an official program of study with the student when the student is accepted for matriculation.



After the conference with the departmental advisor, the applicant will receive notification about his status from the Division of Graduate Studies. No student is matriculated in a degree program prior to receipt of an official notification from the Graduate Division.

### **Admission of Veterans**

Veterans seeking admission to the Division of Graduate Studies should apply to the Veterans Administration well in advance of the registration dates for a certificate of eligibility and entitlement. These forms may be obtained at the Veterans Administration office at 20 Washington Place, Newark, New Jersey.

The Veterans Administration has established certain limitations, particularly with regard to changes in courses. It therefore becomes particularly important that the veteran clearly state his educational objectives on all appropriate forms.

To assist the veteran, to ensure that his application is in order, and that the veteran has fulfilled the requirements of the GI bill, the veteran should report during registration to the Veterans' Counselor, whose office is in College Hall.

### **Foreign Applicants**

Foreign applicants should obtain the *Application for Admission to an Educational Institution in the United States* from the Graduate Admissions Office and return the completed form to the office at least one month prior to the normal deadline dates.

As proficiency in spoken and written English is prerequisite to graduate study at Montclair State College, the College requires foreign applicants for whom English is not a native language to take the *Test of English as a Foreign Language*, administered worldwide by the Educational Testing Service of Princeton, New Jersey. Scores from the *Test of English as a Foreign Language* should reach the Graduate Admissions Office no later than the normal deadline dates.

### **Senior-Graduate Students**

Montclair State College undergraduates with academic averages of 2.67 or greater, who are within 16 semester hours of graduation, may take up to six semester hours of graduate work.

In order to be eligible to take graduate courses, a qualified senior must complete the appropriate application, which is available in the Graduate Admissions Office. This application must be approved by the registrar, the chairman of the appropriate graduate department in which the student wishes to study and the Dean of Graduate Studies.

Qualified undergraduates taking Senior-Graduate courses must pay appropriate fees and tuition at the regular graduate student rates. Admission of undergraduates to Senior-Graduate courses does not imply future acceptance into the graduate program.



## THE SCHOOLS AT MONTCLAIR STATE COLLEGE

The 36 departments of academic instruction at the College are organized into six schools, each headed by its own dean. Graduate instruction is under the direction of the Director of Graduate Studies.

### School of Educational and Community Services

Ercell I. Watson, Ed.D., *Dean*

The School of Educational and Community Services exists to provide professional educational services to the communities of the nation and particularly those of Northern New Jersey. The specific components of society to which these services are directed are the individuals seeking admission to the teaching profession, preparation for areas of specialization within the profession and growth within the profession; public school systems; non-public schools; community agencies and business and industrial organizations. It is also concerned with the continuing development of the general field of education and those problems of society which are related to it.

The general role of the school is three-fold: (1) to make these services available in a manner which will be most accessible and useful to the recipients, (2) to utilize to the best advantage the training, experience and expertise of the staff in the performance of these services and (3) to act as a coordinating agency in working with other agencies of the College and community in mutual efforts of service. The general means of performing these services will be those of instruction, consultation, supervised laboratory experiences and research.

Current graduate programs in the school are designed to meet one or more of six needs: (1) instruction in Administration and Supervision (Educational Leadership) leading to the Master of Arts degree and New Jersey certification for positions of Supervisor, Principal or School Administrator; (2) instruction in the Student Personnel Services, including School Social Work (Visiting Teacher) leading to the Master of Arts degree and New Jersey certification in guidance and school social work; (3) Master of Arts with a major in education to prepare liberal arts college graduates for teacher certification combined with further graduate study; (4) Master of Arts in Reading; (5) advanced professional instruction for administrators, supervisors, counselors, classroom teachers and other personnel involved in educational pursuits and (6) Master of Arts in Environmental Education.

The admission requirements and the requirements for the Master of Arts degree in each of the areas within the field of Education are listed separately. Students who are not candidates for a degree may elect any courses except those for which they may not have the necessary prerequisites or which are restricted to candidates in the field of specialization. Courses at the sixth year level are available in Educational Leadership (Administration and Supervision) and Student Personnel Services.

Note: The school of Education and the Division of Urban Programs and Community Services have been merged into a single unit. This will undoubtedly result in a revision and expansion of existing programs. Students enrolled in existing programs will have the opportunity of completing programs in which they are matriculated without any changes.

## **School of Fine and Performing Arts**

Donald M. Mintz, Ph.D., *Dean*

The School of Fine and Performing Arts is responsible for instruction, performance and research in the arts. It is presently organized into the departments of Fine Arts, Music and Speech and Theater. The programs serve a variety of student-defined objectives: fundamental education for careers in performance, teaching, management, or scholarship; preparation for community service in the arts; or general education in the arts as a basis for enhancing the aesthetic qualities of personal life.

As the school is still in its formative years, it will concentrate upon established programs. However new emphases are being developed. Looking to the near future, the plans for the School of Fine and Performing Arts include significant growth in the areas of technical theater and design, television and radio, film and photography, arts management, urban cultural development and design, society and the arts and personal life and the arts. There will be increased stress on inter-arts programs and on programs relating the arts to other disciplines.

The proximity of the college to New York is an advantage to graduate students in the visual and performing arts. Independent study arrangements are encouraged as a way of taking advantage of these unique opportunities.

## **School of Humanities**

Wolfgang B. Fleischmann, Ph.D., *Dean*

The School of Humanities offers graduate work toward the Master of Arts degree in English and Comparative Literature, French language and literature and the literature of Spain and of Spanish America.

The School is attractively housed in Partridge Hall, a new classroom and faculty office facility.

All graduate courses and curriculum in the School of Humanities are under continual revision by a committee, chaired by the dean of the school, consisting of one graduate student and one faculty member from each of the three programs.

## **School of Mathematics and Science**

Irwin H. Gawley, Ed.D., *Dean*

The School of Mathematics and Science includes the departments of biology, chemistry, mathematics and physics-geoscience.

Graduate programs in the sciences and mathematics were introduced in the College over thirty-five years ago. The two areas are dynamic and continuously increasing in complexity.

The school is presently located in portions of Finley and Mallory Halls. A new building is under construction to house the departments of chemistry, mathematics and physics. Scheduled for completion in September of 1972, it will provide new laboratories, classrooms, conference rooms, a computer facility, offices and individual laboratory carrel space for students and faculty. The present space occupied by these departments will be used to develop additional facilities for the biology and geoscience areas.

The College is a charter member of the New Jersey Marine Sciences Consortium. Certain of the courses, listed in the departments of biology and physics-geoscience, are given at the facilities of the Consortium.

## **School of Professional Arts and Sciences**

Houston G. Elam, Ph.D., *Dean*

Courses offered by the school provide a wide range of knowledge opportunities which, if selected carefully, result not only in a broadening of professional competence, but also in an improved life style.

Graduate programs in the School of Professional Arts and Sciences are offered to accomplish several objectives:

1. To increase one's knowledge within a specialized professional area improving job mobility and promotional opportunities.
2. To provide an opportunity for candidates to earn an advanced degree and obtain improved professional credentials.
3. To provide the opportunity for promoting professional skills outside one's area of major competence.

Graduate programs within the School are structured to result in the awarding of a Master of Arts degree in (1) Business or Distributive Education, (2) Health Education, (3) Home Economics, (4) Industrial Education and Technology and (5) Physical Education.

These programs are generally offered in two tracts of learning. One tract leads to an advanced degree in specialized education. Such programs are intended primarily for teachers improving knowledge levels. These programs should lead to better educational skills for teachers resulting in higher subject content knowledge for students.

The second tract is intended for direct professional input, intended to permit graduates to enter professions in middle management levels or to improve probabilities of rapid upward movement within one's profession.

## **School of Social and Behavioral Sciences**

Philip S. Cohen, Ph.D., *Dean*

Graduate programs in the School of Social and Behavioral Sciences are designed to accomplish four objectives:

1. To provide the opportunity for students to acquire advanced knowledge in one of the major areas of the social or behavioral sciences.
2. To acquaint the student with the inter-relatedness of the various fields within the social and behavioral sciences as well as their relationship to other disciplines.
3. To familiarize students with the particular methodology and problems of his or her field.
4. To provide students with the background to do creative and independent work both during and after their graduate careers.

Specifically, graduate programs are available in (1) History and the Social Sciences, (2) Psychology and (3) Communication Sciences and Disorders.

History and the social sciences comprise a number of disciplines, the boundaries of which are constantly changing and expanding. At the same time, research within the disciplines is becoming more specialized. The necessity for constant study, therefore, presses upon everyone involved in the social sciences whether he is teaching or working in government, industry or the helping professions.

The Departments of History and the Social Sciences provide programs of an advanced character which reflect sound developments in scholarship in various fields. They also offer advanced courses for teachers who wish to improve their preparedness for specialized secondary school subjects. Finally, they aim to provide for the teacher an opportunity for keeping informed about changing techniques and problems related to teaching the social studies. Selections from advanced courses lead to the Master's degree in history and the social sciences, with concentration in a particular field.



The Psychology Department offers programs of a distinctly professional nature as well as those which are preparatory for more advanced degrees.

The graduate program in speech, language and hearing rehabilitation leads to increased skills and qualifications as a therapist in public schools or in special institutions, such as hospitals, and to completion of the requirements for certification in the State of New Jersey and in the American Speech and Hearing Association.

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## **ACADEMIC INFORMATION**

### **Academic Policies**

#### **Course Load**

Full-time students in residence must register for from 12 to 16 credit hours each semester. Part-time graduate students who are employed on a full-time basis may not register for more than nine semester hours of credit in any semester, including the Summer Session.

The Division of Graduate Studies recommends that the part-time student should not take more than six semester hours of course work in any one semester.

#### **Course Numbers**

Courses numbered from 400 through 499 are senior/graduate courses. These courses may be taken for graduate credit only with permission of the graduate faculty advisor in the student's major department and only to the extent approved by regulations of the Division of Graduate Studies. At this time, no more than 25 percent of courses offered for the Master of Arts degree may be courses numbered from 400 through 499.

Courses numbered 500 and above are open only to graduate students.

#### **Restrictions for Graduate Credit**

No credit is granted toward the Master of Arts degree for certain 400-level courses which are required for initial certification.

Courses taken more than ten years prior to the date of the student's matriculation will not be accepted for credit toward the Master of Arts degree.

No more than six semester hours of credit may be allowed for courses completed prior to matriculation for the Master of Arts degree, except in specially-designated programs. This six-credit limitation includes all transfer credits as well as pre-matriculation credits completed at Montclair State College.

Graduate credit is not granted retroactively for courses undertaken in excess of undergraduate degree requirements.

No graduate credit is allowed for courses taken at other colleges while the student is enrolled at Montclair State College unless the student obtains prior approval from the Director of Graduate Studies to undertake such courses at other institutions.

Credit is not allowed for courses taken on an audit basis.

It is the obligation of each student to ensure that each course undertaken for graduate credit does not duplicate a course previously taken by that student. Courses may not be taken more than once for credit regardless of any change in the course number or title. Students are particularly cautioned to be careful with regard to courses that have been updated, where course number or titles may have changed; these courses may not be counted more than once.

### Transfer Credit

A graduate of an accredited college or university may transfer a maximum of six semester hours of graduate credit toward the Master of Arts degree at Montclair State College, provided the student obtains approval from his departmental graduate advisor and from the Dean of Graduate Studies. A form for this purpose is available in the Division of Graduate Studies. This form should be completed well in advance of the date the transfer credit is needed.

Courses completed ten or more years prior to matriculation may not be transferred for graduate credit. Grades below B are not accepted for transfer credit.

### Time Limit

Work for the Master of Arts degree must be completed within six years from the date of the student's matriculation, unless the Dean of Graduate Studies approves an extension. Applications for extension will be reviewed and evaluated by the Dean of Graduate Studies on the basis of the student's progress toward the degree and in accordance with established graduate policy at the time of the application.

### Grades and Standards

There are eight grades used at Montclair State College:

A Excellent

B Good

C Fair

D Poor

F Failure

INC Incomplete

WD Withdrew

NC No Credit

No graduate credit is allowed for courses completed with grades below "C". In order to qualify for the Master of Arts degree, a student must present an average grade of at least "B" in all courses.

The mark "F" signifies: (1) academic failure; (2) failure of the student to submit written notice of withdrawal, or (3) withdrawal after the midpoint in the semester. The mark "WD" is given to those who submit in writing their intention of withdrawing from a course before the midpoint of a semester.

The mark "INC" indicates that a student, due to illness, was unable to complete the work by the end of a semester. Course work for "INC" grades received in the Fall semester must be completed by April 15; course work for Spring or Summer "INC" grades must be completed by November 15. Failure of the student to complete the assigned course work by the given date will result in a final grade of "F". Deadlines are adjusted for courses which meet for more or less than a full semester.

An official record of credits and grades earned will be mailed to the student following the close of each semester.

A student who does not maintain an acceptable standard of scholarship, defined as an average of "B" or greater, will be placed on academic probation. If it thereafter becomes apparent that the student is unlikely to achieve the acceptable grade standard, the student will then lose his or her matriculated status.

## 24/Academic Information

The Dean of Graduate Studies and the student's graduate faculty advisor may, for good reason, recommend to the Vice President for Academic Affairs that a student's matriculated status be revoked. Such recommendation will be made for students found deficient in personality, integrity, temperament, emotional adjustment or physical stamina, or after it has been established that there is evidence of serious unprofessional conduct.

### Registration Procedure

All graduate students who were registered at Montclair State College during the last semester will receive registration materials by mail. New students, or students not registered in the last semester, must register in person.

Details about registration procedure may be obtained from the Division of Graduate Studies.

### Changes of Courses

Students should not change their planned course program without approval of the departmental graduate advisor. Appropriate forms are available in the Division of Graduate Studies.

### Withdrawal from a Course

A written notice to the Division of Graduate Studies is required for withdrawal from a course. An acknowledgment will be sent to the student following receipt of the written notice of withdrawal.

Refunds are computed from the date of receipt of the written notice of withdrawal.

Students who do not submit a written notice will receive the grade of "F" in those courses which they cease to attend. Students who withdraw after the midpoint will also receive an automatic "F" grade.

Withdrawal from courses that meet more than or less than a full semester is allowed until the midpoint of the course.

Students are cautioned that notification to the instructor does not constitute an official withdrawal.

### Cancellation of Courses

The College reserves the right to cancel any course for which enrollment is insufficient. In that event, students from the cancelled class may register for another course or receive a refund of tuition. This authorization to register for another course does not exempt a student from meeting the stated prerequisites for admission to that alternate class.

### Change of Major

A student transferring from one major department to another must complete a *Change of Program Form*, which may be obtained from the Division of Graduate Studies. This form must be signed by the departmental graduate advisors from the student's present department and from the department the student desires to enter, and must also be signed by the Dean of Graduate Studies.

Following approval of the application to change a major, a new official program of studies is worked out with the student. Students are cautioned that



all previously completed course work may not necessarily be approved for transfer to the new program. Students who change programs are governed by the six year completion of requirements rule from the date of their first matriculation.

### **Master's Degree Credit**

Each student assumes responsibility for assuring that he completes the proper courses for his program need. Students should bring to each registration their official work programs as well as transcripts of graduate work already completed, in order to avoid taking courses which cannot be counted toward the Master of Arts degree in the student's field.

## **Graduation Requirements**

### **Minimum Number of Semester Hours**

A minimum of thirty-two semester hours of graduate credit is required in all departments. Additional hours may be added to compensate for any deficiencies in the applicant's undergraduate record. A minimum of thirty-two semester hours plus student teaching is required in the program with a major in teaching. A minimum of sixty semester hours is required for certification in the School Psychology Program.

### **Thesis**

Four of the total credits can be satisfied by a thesis which meets the approval of the faculty graduate advisor and the Dean of Graduate Studies.

A department may accept the Master's Thesis as equivalent to the required seminar, and/or in lieu of all or part of the final comprehensive examination. A student writing a thesis must register for the course, Departmental 600, Master's Thesis, for four semester hours.

The student is expected to complete the thesis within one calendar year. An extension of time may be granted by the Dean of Graduate Studies after consultation with the student's advisor. If granted, the student must re-register for Departmental 600 on a no-credit basis and pay a fee for two semester hours. This extension will be for six calendar months. The thesis must be submitted six weeks prior to commencement.

### **Comprehensive Examination**

The examination is usually given twice a year, once in October and once in March. It is the student's responsibility to file the "Notification for Comprehensive Examination" form with his or her advisor. The form is available in the Division of Graduate Studies office. This procedure should be completed at least six weeks prior to the examination date. Students who fail the departmental comprehensive examination are permitted to retake this examination twice.

Students should check with their graduate advisor to determine the dates on which the comprehensive examinations will be offered.

### **Application for Final Evaluation**

This application form is obtained in the Division of Graduate Studies office by the candidate anticipating the completion of the degree requirements.



The responsibility for making application rests with the candidate.

This form must be completed and returned by March 15 for students completing requirements by the end of the Summer Session, by July 1 for students completing requirements in the Fall semester, and by November 15 for students completing requirements in the Spring semester.

Students should check with advisors concerning final examination dates and other details involved in graduation procedures.

### **Commencement**

Commencement exercises are held each Spring.

Students who meet the scholastic requirements for their degrees and who have fulfilled all obligations to the College in August or January will be awarded diplomas.

Participation in the commencement exercises is expected unless a request for conferment in absentia is approved by the Dean of Graduate Studies prior to the date of commencement.



## **PROGRAM DESCRIPTIONS AND DEGREE REQUIREMENTS**

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**BIOLOGY**

*Graduate Advisor:* Professor Leah Koditschek

The graduate programs in the biology department are designed to enable a student further to develop his or her preparation for a career in biological fields requiring advanced training or for the teaching profession.

**Admission Requirements**

Prior to matriculation for the Master of Arts degree in biology, the student should have completed a subject-matter background of at least twenty-four semester hours in biology, two years of college chemistry and sufficient preparation in mathematics and physics.

In cases where there has been a weak undergraduate program in the major field, prerequisite courses, which will not count towards graduate credit, may be assigned. In general, the assignment of elective hours to the major area will compensate for deficiencies in depth of preparation while prerequisite courses will compensate for deficiencies in breadth.

Students in the teaching fields may use six semester hours of free electives for the selection of graduate courses in the area of professional education.

The work program of the student is prepared in cooperation with the biology graduate advisor.

**Requirements for the Master of Arts Degree in Biology**

- I. Specialization ..... 22-26 semester hours
    - A. The candidate must complete the research requirement by taking one of the alternatives listed below:
      - 1. Master's Thesis ..... Credit by arrangement
      - 2. 0401-514 Biology and the Problems of Society .. 2 semester hours
    - B. The candidate must complete a minimum of 16 semester hours within the biology department at Montclair State College.
  - II. Free Electives ..... 6-10 semester hours
  - III. Comprehensive Examination
- Minimum: 32 semester hours





## BUSINESS AND DISTRIBUTIVE EDUCATION

**Graduate Advisors:** Professor Louis C. Nanassay — Business Education  
Professor Joseph C. Hecht — Distributive Education

The Department of Business and Distributive Education prepares teachers of business education for administrative, supervisory and specialized work, or master teaching in the field of business education and distributive education. In order to attain these objectives the candidate has an opportunity to supplement his undergraduate program and to explore advanced areas of work in accordance with his individual background, experience, achievement and professional needs.

### Admission Requirements

Graduate work toward the Master of Arts degree in Business or Distributive Education presupposes the completion of an undergraduate major in business or distributive education or its equivalent.

### Requirements for the Master of Arts Degree in Business Education

I. Basic Professional Education	6 semester hours
II. Specialization	20 semester hours
A. Required Courses	semester hours
0838-501 Principles and Problems of Business Education .....	3
0838-503 Introduction to Research in Business Education .....	3
0838-603 Seminar in Business Education .....	3
Required, at least one of the following courses:	
0838-511 Improvement of Instruction in Bookkeeping, Accounting and Business Arithmetic .....	3
0838-512 Improvement of Instruction in General Business Subjects ..	3
0838-513 Improvement of Instruction in Stenography and Secretarial Practice .....	3
038-514 Improvement of Instruction in Typewriting and Clerical Practice .....	3
B. Electives in Business Education and/or Distributive Education ....	8
III. Free Electives .....	6
Minimum: 32 semester hours	

### IV. Comprehensive Examination

All candidates for the Master of Arts degree in Business Education must pass a comprehensive oral and written examination before they are granted the degree. This examination is given in the Fall and Spring semesters and should be taken during or after the semester the candidate takes 0838-603, Seminar in Business Education. The examinations are general in nature and are intended to test the candidate's maturity of thought with respect to business and distributive education.



## Requirements for the Master of Arts Degree in Distributive Education

I. Basic Professional Education	6 semester hours
II. Specialization	20 semester hours
A. Required Courses	semester hours
0838-501 Principles and Problems of Business Education .....	3
0838-503 Introduction to Research in Business Education .....	3
0838-603 Seminar in Business Education .....	3
Required, at least one of the following courses:	
0840-550 Improvement of Instruction in Retailing Subjects .....	3
0840-552 Improvement of Instruction in Wholesaling and Services .....	3
B. Electives in Distributive Education .....	8
III. Free Electives .....	6
Minimum: 32 semester hours	
IV. Comprehensive Examination	



## CHEMISTRY

**Graduate Advisor:** Professor Joseph F. Becker

The graduate program offered by the chemistry department is designed to provide breadth in pure and applied chemistry at an advanced level. The program also seeks to provide depth in one area in which the student has particular interest.

### Admission Requirements

Prior to matriculation for the Master of Arts degree in chemistry, the student should have completed courses in inorganic, organic and physical chemistry, plus general physics and mathematics through calculus. Twenty-four semester hours of undergraduate chemistry is required but a four-year full major is preferred.

Students in the teaching field may use six semester hours of free electives for the selection of graduate courses in the area of professional education.

The student's work program is prepared with the chemistry graduate advisor. Any changes in the developed program are made only with the written approval of the graduate advisor.

### Requirements for the Master of Arts Degree in Chemistry

I. Specialization	22-26 semester hours
A. Required	<i>semester hours</i>
1905-521 Theoretical Inorganic Chemistry .....	3
1905-531 Advanced Theoretical Organic Chemistry .....	3
B. Research (the candidate must complete the research requirement by taking one of the alternates listed below)	
1905-551 Graduate Individual Laboratory Research in Chemistry .....	3-6
0834-505 Research Seminar in Science .....	2
1905-600 Thesis .....	4
C. Electives in Chemistry .....	10-17
II. Free Electives .....	6-10
III. Comprehensive Examination (based upon the research that the student has completed)	

Minimum: 32 semester hours

## **COMMUNICATION SCIENCES AND DISORDERS**

*Graduate Advisor:* Professor Harold M. Scholl

Graduate students have the opportunity to specialize within the broad area of Communication Sciences and Disorders in one of the four major tracks: (1) Speech Pathology; (2) Audiology; (3) The Hard of Hearing and Deaf and (4) Learning Disabilities.

All four programs stress interdisciplinary approach to the understanding and remediation of communication disorders, with some guidance in research but emphasize clinical skills. Successful students are those who have a strong need to understand the bases of clinical procedures, who work well with or without supervision, and who, with guidance from the staff, initiate independent projects, taking responsibility for personal growth in intellectual and clinical skills.

Students should indicate their choice of specialization at the time of advisement for matriculation.

### **Requirements for the Master of Arts Degree in Communication Sciences and Disorders**

#### **Speech Pathology**

Students wishing to matriculate in this area of specialization must have completed the equivalent of 30 semester hours from among the following areas:

- A. Professional Education — A minimum of 9 semester hours including one course from each of the following areas: principles and practices of education, educational psychology and curriculum.
- B. Specialization — A minimum of 18 semester hours from among the following areas: Psychology and Education of the Handicapped, Phonetics, Anatomy and Physiology of the Auditory Mechanism, Speech Correction, Speech Pathology, Clinical Practices in Speech, Measurement of Hearing (Audiology) and Voice and Speech Improvement.

Each student must also be capable of setting an example of acceptable speech. If his voice and speech patterns are considered to be substandard, he will be required to take steps to increase his competency. If the speech problem is severe, he may be refused permission to matriculate.

## Audiology and The Hard of Hearing and The Deaf

A minimum of 18 semester hours from among the following areas:

- Anatomy and Physiology of the Auditory and Vocal Mechanisms
- Speech and Language Development
- Speech Pathology
- Measurement of Hearing
- Auditory Rehabilitation
- Clinical Practice in Audiology
- (125 hours maximum of hours completed elsewhere.)

## Learning Disabilities

### A. Prerequisites

- 1) A standard New Jersey teachers certificate, or equivalent.
- 2) One year of classroom teaching experience or of special instructional experience (speech correction, reading, student personnel).
- 3) Approval by Graduate Committee on Admission to this program.

### B. Core Requirements

#### I. Required — one of the following: *semester hours*

- |   |   |
|---|---|
| 0824-503 Methods and Instruments of Research        |   |
| 0824-507 Measurement and Evaluation I               |   |
| 2201-510 Research Methods in Psychology             |   |
| 2201-578 Psychological Tests and Measurements ..... | 3 |

Two of the following:

- |   |   |
|---|---|
| 0808-500 Nature of Reading .....              | 3 |
| 2201-563 Theories of Learning .....           | 3 |
| 1220-583 Language Disorders of Children ..... | 3 |

The following electives may be taken in place of, or in addition to, required courses if equivalencies of above are presented:

- |   |   |
|---|---|
| 1220-502 Psychology of Oral Communication .....         | 3 |
| 2201-560 Advanced Educational Psychology .....          | 3 |
| 2201-561 Developmental Psychology .....                 | 3 |
| 1842-564 Dynamics of Group Process .....                | 3 |
| 2201-568 Psychology of Group Dynamics .....             | 3 |
| 0826-570 Counseling Adults .....                        | 3 |
| 0826-580 Principles of Guidance and Counseling .....    | 3 |
| 2201-582 Behavior Modification .....                    | 3 |
| 0826-585 Group Guidance and Counseling Activities ..... | 3 |

Total: 9 semester hours

#### II. (Taken by all students in the program regardless of specialization)

Required:

- |   |   |
|---|---|
| 2201-*565 Psychology and Education of Socially and<br>Emotionally Handicapped ..... | 3 |
| 2201-*573 Physiology Psychology .....   | 3 |
| 1220- 620 Orientation and Observation in Special Education .....                    | 3 |

The following electives may be taken in place of, or in addition to, required courses if equivalencies of above are presented:

\*Required for Certification in Learning Disabilities



### 34/Program Descriptions

1301- 427 The Inner City Family .....	3
2201- 453 Social Psychology .....	3
0821- 540 Social Forces in Education .....	3
2201- 553 Urban Psychology .....	3
2201- 564 Psychology and Education of the Physically and Mentally Handicapped .....	3
2208- 565 Sociology of Youth .....	3
Total: 9 semester hours	

#### C. Specialization Requirements

##### Speech Pathology

	<i>semester hours</i>
1220-531 Advanced Audiology .....	3
1220-533 Supervision of Speech and Hearing Programs .....	3
1220-535 Advanced Seminar in Communication Disorders .....	6
1220-592 Seminar in Research in Speech Pathology .....	2

#### D. Electives

Completion of 150-275 hours of clinical practicum in speech correction depending upon number of hours completed prior to matriculation.

##### Audiology

Total: 20 semester hours

	<i>semester hours</i>
1220-531 Advanced Audiology .....	3
1220-536 Seminar in Audiology .....	6
1220-593 Seminar in Research in Audiology .....	2

#### Electives

Completion of 150-275 hours of clinical practicum in audiometric testing depending upon number of hours completed prior to matriculation.

##### The Hard of Hearing and the Deaf

Total: 20 semester hours

	<i>semester hours</i>
1220-531 Advanced Audiology .....	3
1220-561 Clinical Practicum (150 hours) in Teaching the Deaf .....	3
1220-570 Teaching Speech to the Hard of Hearing and Deaf .....	2
1220-571 Methods of Teaching the Deaf .....	3
1220-578 Seminar in Research in Hard of Hearing and the Deaf .....	2
	7

##### Learning Disabilities

Total: 20 semester hours

	<i>semester hours</i>
1220-581A Diagnosis and Correction of Children with Learning Disabilities, I .....	3
1220-581B Diagnosis and Correction of Children with Learning Disabilities, II .....	3

1220-581C Supervised Practicum in Learning Disabilities (90 hours required)	3
1220-582 Remediation of Basic Skills (Methods and Materials)	3
1220-589 Seminar in Research in Learning Disabilities	2
Total: 20 semester hours	

## Electives

Selection from among the following courses will be determined through advisement and will be based on student's needs and interests.

## Communication Sciences

*semester hours*

1220-522 Advanced Phonetics	2
1220-534 Advanced Anatomy and Physiology of the Vocal and Auditory Mechanism	3
1220-572 Speech Science and Instrumentation	3

## Communication Disorders

### Speech Pathology

1220-511 Advanced Speech Pathology	3
1220-512 Advanced Diagnosis of Communication Disorders	3
1220-513 Parent Counseling in Communication Disorders	3
1220-514 Communication Disorders of the Aged	3
1220-515 Voice Disorders	3
1220-532 Practicum in Speech Rehabilitation	2
1220-584 Cleft Palate and Oral Deformities	3
1220-585 Stuttering	3
1220-591 Organization and Administration of Communication Disorders Programs	3
1220-594 Independent Study	each 1

### Audiology

1220-537 Hearing Aids and Hearing Aid Selection	3
1220-538 Differential Audiometry	3
1220-540 Practicum in Audiology	2
1220-541 Advanced Practicum in Audiology	2
1220-542 Identification Audiometry and Conservation Programs	3

### Deafness and Hearing Impairment

1220-574 Psychology of Deafness	3
1220-575 Language Development for the Deaf	3
1220-576 Aural Rehabilitation for Adults	3
1220-577 Aural Rehabilitation for Children	3

### Language Development and Disorders

1220-465 Seminar in Black Language	3
1220-500 Speech and Language Acquisition	3
1220-501 Language Development in the Primary Grades	3
1220-502 Psychology of Oral Communication	3
1220-583 Language Disorders of Children	3

## 36/Program Descriptions

### Learning Disabilities

1220-586 Education of the Handicapped .....	3
1220-587 Educational Technology in Teaching Children with Learning Disabilities .....	3
1220-588 Teaching Specialized and Vocational Skills to Children with Learning Disabilities .....	3

### Additional Departmental Requirements

1. Written comprehensive examination.
2. Majors in speech pathology and audiology must complete a total of 275\* hours of supervised direct clinical experience. Majors in Hard of Hearing and Deaf and Learning Disabilities must complete a minimum of 90 clock hours of supervised experience.

\*Up to 125 hours completed as an undergraduate will be accepted toward the requirement.

Note: Interrelated graduate programs in special education and special pupil services — see descriptions in Psychology.



## TEACHING

<i>Graduate Advisors:</i>	Professor Joseph L. Venturini (Coordinator) Professor Constance Waller
<i>Certification Advisor:</i>	Simone Picard (Graduate Office)

### Admission Requirements

The program is designed to enable a candidate with a baccalaureate degree and an interest in teaching to earn the Master of Arts degree and a Teaching Certificate simultaneously. Curricula for standard teaching fields and special urban programs are available.

The program is open to students with undergraduate background equivalent to a teaching field in one of the following areas: Fine Arts, Business Education (Bookkeeping and Accounting, General Business Education, Secretarial Studies), Communication Sciences and Disorders, Distributive Education, English, Foreign Languages (French, German, Spanish), Home Economics, Industrial Arts, Mathematics, Music, Physical Education, Reading, Science, Social Sciences, Speech and Theater.

Upon completion of the program the student will be recommended to the New Jersey Department of Education for a Teaching Certificate. Although students interested in teaching elsewhere should seek information from the appropriate state authorities, requirements are generally similar.

### Requirements for the Master of Arts Degree in Teaching

In addition to the general requirements for admission and matriculation for the Master's degree, the applicant must be admitted to the Teacher Education Program.

Criteria which will be considered for admission are:

- (1) Three favorable recommendations, two of which are from college faculty or school administrators.
- (2) Verification of demonstrated competence in speech by the Department of Speech and Theater.
- (3) Cumulative undergraduate grade point average of at least 2.67 and a qualifying score on the Graduate Record Examination.
- (4) Evidence of active interest in community affairs and in teaching.
- (5) Clearance by the Student Personnel Division.
- (6) Approval of the departmental screening committee.

### Advisement

Persons interested in the program may secure information from the listed advisors. Upon acceptance, the student will be assigned a Departmental Advisor who will cooperatively develop a formal program of course work and advise the student continuously. For information about certification in New Jersey, the student may confer with the advisor for Certification Programs.



### 38/Program Descriptions

I. Professional Sequence	9 Semester hours
A. Prerequisites	
2001-101 Human Growth and Development (3 semester hours)—undergraduate credit only	
2001-200 Educational Psychology (3 semester hours) — undergraduate credit only	
0829-410 Field Experiences in Education or equivalent (1-3 semester hours)	
B. Required Courses	9 semester hours
Major Department Teaching Methods.....	3
0829-400 Teacher, School and Society .....	3
0829-521 Seminar: Theory in the Classroom .....	3
II. Education Sequence*	12 semester hours
A. Required Courses	
0829-564 Dynamics of Group Processes .....	3
And one of the following	
0829-503 Methods of Research .....	3
0829-504 Action Research for Teachers .....	3
B. Electives	6
Graduate courses offered by the School of Education, not specifically designed for preparation or certification in some other area of Education, are selected with approval of the Departmental Advisor.	
III. Teaching Field Studies	6-9 semester hours
Graduate courses in the teaching field which are covered by the certificate or serve other needs and interests of the student, are selected with approval of the Departmental Advisor.	
NOTE: The student's undergraduate program may have been such as to require additional course work in his teaching field to meet certification standards.	
IV. Cultural Electives	3-6 semester hours
Courses, selected with approval of the Departmental Advisor, outside the School of Education and the student's teaching field which would tend to extend or broaden his general education.	
V. Field Experience	
One of the following:	
0829-411 Supervised Student Teaching	
0829-416 Professional Teaching Semester **	8 semester hours
0829-417-8 Internship in Teaching	
Total: 40 semester hours	

\*If, in the opinion of the Dean of the School of Education, the student has essentially achieved the objectives of part of the program that portion of the requirements may be waived. However, the number of graduate credits may not be reduced below 32, and other requirements of the College still apply.

\*\*Preferred option.

## **EDUCATIONAL LEADERSHIP (ADMINISTRATION AND SUPERVISION)**

*Graduate Advisors:* Professor Laurence Bellagamba (Coordinator)  
Professor Bertram Lindemann  
Professor Frank Merlo  
Professor Earl Mosier

The purpose of this program is the preparation of educational leaders who are keenly aware of developments and opportunities presenting themselves as our nation moves forward; leaders who have the ability to cope with and play a professional role in influencing such a process.

The Educational Leadership Faculty works closely with other groups in the School of Educational and Community Services to prepare educational leaders in the broadest sense.

The multi-faceted education function includes public and private school systems, staff development programs of business, other professions and industry. It includes educational services of political movements and foundations. Such a program, as conceived by this department, gives attention to the theory and application needed in the great variety of emerging programs.

It is anticipated that those who complete the graduate programs in this department will be prepared for the following types of positions:

Major administrative or supervisory personnel in educational systems

Educational consultants

Managers of emerging educational programs

Educational managers and planners in the media fields

The programs in Educational Leadership are essentially two-year graduate programs. Graduate study, including a one semester internship, is considered minimal preparation for professionals in this field today. The programs meet certification requirements of most states including New Jersey, and in most cases go beyond such requirements. In addition, they meet the standards of professional accrediting associations that are increasingly recommending two years of graduate study. The substance of these programs is also in harmony with the guidelines recommended by such outside professional associations.

### **Requirements for the Master of Arts Degree in Educational Leadership**

1. Matriculation into the Master of Arts Program in Administration and Supervision.

A student who has been admitted to graduate study should apply for matriculation before completing the first six required semester hours of course work in Educational Leadership (See Phase I below) or their equivalent. Final action is also based on all-college requirements and any special individual requirements assigned to the student by the Educational Leadership faculty.

Transfer students wishing to have prior course work recognized which has been taken at another accredited institution must take at least one Phase I course at Montclair State College within the last five years before matriculation.

## 40/Program Descriptions

The following are guidelines for approval of Master of Arts matriculation.

### **Master of Arts Degree (33 semester hours):**

- A. A Bachelor of Arts Degree from an accredited institution of higher education.
- B. Qualifications for graduate study as indicated by:
  1. undergraduate scholastic average
  2. scores on the Aptitude section of the Graduate Record Examination
- C. Two years of successful teaching experience or other employment judged as suitable educational experience
- D. Satisfactory completion of Phase I of the Program or its equivalent (See description of Phase I below)
- E. Competency in written English and an acceptable statement of personal goals written by the candidate
- F. Recommendations of two educational leaders, one an instructor in Phase I courses
- G. Personal characteristics for leadership as displayed in a department interview

#### **2. Course Requirements:**

##### **A. Phase I**

9-12 semester hours  
semester hours

- |   |   |
|---|---|
| 0821-540 (32) Social Forces and Education .....   | 3 |
| A three semester hour graduate approved course offered in the Social and Behavioral Sciences or Humanities .....  |   |
| 0827-510 (33) Educational Administration I .....  | 3 |
| 0842-564 (35) Dynamics of Group Process or the successful completion of a course in group dynamics taken at the graduate level of any accredited college or by participation in a Human Relations Laboratory of at least one week's duration conducted by an accredited institute or college .... | 3 |

##### **B. Phase II**

9-12 semester hours  
semester hours

- |  |   |
|--|---|
| 0829-530 (31) Principles of Curriculum Development .....   | 3 |
| 0827-540 (33) Supervision I (Principles) .....   | 3 |
| 0824-503 (34) Methods of Research .....  | 3 |
| 0827-515 (33) Supervised Field Experience in Administration and Supervision (may be waived for equivalent experience) .... | 3 |

##### **C. Phase III — Program Supporting Electives**

9-15 semester hours

Electives are to be selected after consultation with the advisor. They are to be approved by the advisor and listed in the Master of Arts Degree work program. Students wishing to meet certain administrative or supervisory certification requirements may elect several of these courses at this time. Certain courses outside the School of Education may be selected. A Field Experience 0827-515, for three semester hours must be included if the candidate has no equivalent experience at present in his professional record.

Total: 33 semester hours



*A Planned Program of Thirty Semester Hours of Advanced Graduate Study in  
Administration and Supervision*

Students holding a Master of Arts degree and New Jersey certification for Principal who wish to continue planned graduate study of thirty additional semester hours will be required to meet all matriculation requirements for admission to the Master of Arts program in Administration and Supervision at this college and make a satisfactory grade on a comprehensive examination covering the fields of Administration and Supervision. Such a thirty hour program will need to be approved by a faculty advisor so as to meet the professional goals of the student, including certification for Administrator (Superintendent of Schools) in New Jersey.

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## ENVIRONMENTAL EDUCATION

Graduate Advisor: Professor Michael P. London

### Admission Requirements

In addition to general College admission requirements, a student must hold a New Jersey teacher's certificate\*, have an interest in curriculum development and have a background in elementary education, science, social science, geology, camping, conservation, outdoor education, or related fields.

Most of the courses offered on campus, supplemented by appropriate transfer credit for courses offered at the New Jersey State School of Conservation and the College of Environmental Sciences at Rutgers, The State University and other institutions.

### Requirements for the Master of Arts Degree in Environmental Education

Program Outline	<i>semester hours</i>
I. Environmental Education (three courses required)	9
A. 0843-550 Environmental Education .....	3
B. 0843-551 Conservation Education .....	3
C. 0843-555 Curriculum for Environmental Education .....	3
II. Practicum (one course required—to be taken after completion of 0843-503.)	
A. 0843-560 Practicum in Environmental Education .....	3
B. 0843-561 Practicum in Camp Leadership .....	3
C. 0843-562 Practicum in Camping Education and Administration ....	3
III. Outdoor Resources, Recreation and Environmental Health (two courses required)	4-6
A. 0836-502 Safety: Man and Environment .....	3
B. 0836-516 Community and Environmental Aspect of Health .....	3
C. 0835-551 Philosophy of Recreation in School and Community ....	3
D. 0401-413 Field Studies in Biological Science .....	2
E. 0401-414 Problems in Field Studies: Biology .....	2
F. 0401-514 Biology and the Problems of Society .....	2
G. 1914-420 Geology of New Jersey .....	3
H. 2206-424 Geography of New Jersey .....	3
IV. Professional Education and Behavioral Sciences	3-6
A. 0814-503 Methods of Research (required) .....	3
B. 0829-420 Instructional Innovations .....	3
C. 0829-530 Principles of Curriculum Development .....	3
D. 0829-531 Curriculum Construction in Elementary Schools .....	3
E. 0829-533 Curriculum Construction in Secondary Schools .....	3
F. 0821-540 Social Forces and Education .....	3
G. 2204-415 Economics of Social Problems .....	3
H. 2286-410 Urban Geography .....	3
I. 2206-421 Population Problems of the World .....	3
J. 2208-565 Sociology of Youth .....	3
K. 2208-566 Metropolitan Community .....	3
L. 2208-573 Sociology of City Sub-Areas .....	3

\*The program has been revised. See Advisor for changes.

V. Electives (to be selected from above II,III,IV, or the following courses) 8-14

A. Plants

0401-422 Field Studies of Flowering Plants .....	4
0401-424 Morphology of Flowering Plants .....	4
0401-425 Elementary Plant Physiology .....	4
0401-520 Plant Physiology .....	4

B. Animals

0401-412 Genetics .....	4
0401-413 Field Studies in Science: Biological .....	2
0401-430 Field Ornithology .....	2
0401-530 Animal Behavior .....	4
0401-531 Parasitology .....	4

C. Soil, Minerals, Natural Resources

1914-406 Paleontology .....	4
1014-420 Geology of New Jersey .....	3
2206-424 Geography of New Jersey .....	3

D. Air and Water

0401-460 Biological Oceanography .....	3
0401-461 Limnology .....	3
0401-462 Marine Biology .....	4
0401-463 Marine Invertebrate .....	4
0401-464 Marine Botany .....	4
1014-403 Meteorology .....	4
1914-428 Introduction to Oceanography .....	4
1914-432 Marine Geology .....	4

E. General

1902-406 Astronomy .....	4
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Minimum: 32 semester hours



## ENGLISH AND COMPARATIVE LITERATURE

*Graduate Advisor:* Professor James P. Pettegrove

The Department of English and Comparative Literature endeavors to prepare literary critics, productive scholars and accomplished teachers. Through courses in British, American and comparative literature, the department strives to give the student broad perspective. Through seminars for advanced students, it hopes to achieve in-depth insights.

### Admission Requirements

Candidates for matriculation in the Master of Arts program of this department must show a B-average in their undergraduate work and a score of not less than 500 (Verbal) on their Graduate Record Examination. Most applicants will have majored in English or completed 24 semester hours of academic credit in English at the undergraduate level. Students with strong academic credentials may also apply, even if they do not have the recommended background in English. The graduate advisor will interview each candidate for the program regarding his scholastic record and his intellectual and professional goals.

### Requirements for the Master of Arts Degree in English and Comparative Literature

The minimum requirement is 33 semester hours of academic credit. Within the offerings of the department the student may choose areas of study best suited to his individual needs and ambitions. All students are required to complete: the Seminar in Literary Research, a thesis and the comprehensive examination. They must also show a practical reading knowledge of one foreign language.

#### The Research Seminar

Students will be required to enroll in 1501-605, Seminar in Literary Research and in 1501-606, Thesis Writing. In these courses the student documents and completes his Master of Arts thesis.

#### The Foreign Language Requirement

The foreign language requirement may be fulfilled by passing a written test in translation. Students of comparative literature will receive approval of the language of their primary area of study. Otherwise the language will normally be French, German, Italian, Russian, or Spanish. No student may undertake his thesis project until he has fulfilled the language requirement.

#### The Comprehensive Examination

All candidates are required to take a three-hour comprehensive examination. This is a test of literary acquaintance, critical judgment and general sensitivity to British and American literature. The examination is also a test of competence in written expression.

Preparation for the comprehensive examination is the student's responsibility. He may, however, ask for guidance from any and all members of the graduate faculty. For best results on the comprehensive examination the graduate faculty recommends that the student structure his course choices for ex-

posure to studies in genres, periods, individual authors and criticism, both historical and contemporary. The comprehensive examination, which is given in October and March of each year, may be taken at any time after the student has completed one half of his course credits. The student should notify the graduate advisor six weeks in advance of his intention to take the examination.





## FINE ARTS

**Graduate Advisor:** Professor Charlotte Lockwood

The graduate program in Fine Arts is designed to provide the committed artist, art teacher, art historian, or advanced layman with the opportunity to acquire further knowledge, skills and in-depth experience. The program allows for concentration in the area of the student's choice.

Fine arts, history of art, and philosophy of art courses are open to non-art majors. However, studio courses are advanced courses and may be taken only by departmental permission. Although experience in the particular medium of a studio course is not required, a strong art background is necessary for success.

### Admission Requirements

The requirements established for all graduate studies and for matriculation at the college will be followed in respect to this program. Basic Professional Education requirements may be waived by the departmental advisor for non-teaching students.

Matriculation requires completion of a minimum of 36 semester hours in Fine Arts, including both history and studio courses, or equivalent art studies at recognized institutions.

A portfolio of representative art work will be required as evidence of the applicant's ability. Advice concerning this requirement may be obtained from the Department's graduate advisor.

The Department may require one or more specified probationary courses prior to matriculation.

### Requirements for the Master of Arts Degree in Fine Arts

I. Specialization courses	11-20 semester hours
Required	<i>semester hours</i>
1003-590 Modern Philosophies of Art .....	3
1003-591 Selected Problems in Art History .....	3
1001-603 Seminar in Art (with Thesis Project*) .....	2

\*Required of all candidates except students who elect Graduate 1001-600 Master's Thesis I and 1001-601 Master's Thesis II.

Electives:

The following courses are subject to the approval of the graduate advisor:

1. Art Education	
9831-501 Readings in Art Education .....	3
0831-502 Advanced Curriculum Construction .....	3
2. Art History and Philosophy	
1003-590 Modern Philosophies of Art I .....	3
1003-591 Modern Philosophies of Art II .....	3
1003-592 Selected Problems in Art History I .....	3
1003-593 Selected Problems in Art History II .....	3
1003-594 Northern Renaissance Art .....	3

### 3. Fine Arts

1002-511 Advanced Painting I .....	2
1002-512 Advanced Painting II .....	2
1003-513 Advanced Painting III .....	2
1002-514 Advanced Painting IV .....	2
1002-521 Advanced Sculpture I .....	2
1002-522 Advanced Sculpture II .....	2
1002-523 Advanced Sculpture III .....	2
1002-524 Advanced Sculpture IV .....	2
1090-525 Advanced Metalwork & Jewelry I .....	2
1090-526 Advanced Metalwork & Jewelry II .....	2
1009-521 Advanced Ceramics: Pottery & Sculpture I .....	2
1009-522 Advanced Ceramics: Pottery & Sculpture II .....	2
1009-533 Advanced Ceramics: Pottery & Sculpture III .....	2
1009-534 Advanced Ceramics: Pottery & Sculpture IV .....	2
1009-541 Advanced Weaving .....	2
1009-542 Advanced Weaving II .....	2
1009-543 Advanced Decoration of Fabrics I .....	2
1009-544 Advanced Decoration of Fabrics II .....	2
1002-550 Advanced Silk Screen Printing I .....	2
1002-551 Advanced Silk Screen Printing II .....	2
1002-522 Advanced Intaglio Printing I .....	2
1002-553 Advanced Intaglio Printing II .....	2
1002-554 Advanced Woodcut Printing I .....	2
1002-555 Advanced Woodcut Printing II .....	2
1002-556 Advanced Lithography I .....	2
1002-557 Advanced Lithography II .....	2
1002-558 Advanced Lettering I .....	2
1002-559 Advanced Lettering II .....	2
1002-560 Advanced Graphic Design I .....	2
1002-561 Advanced Graphic Design II .....	2
1011-570 Advanced Photography I .....	2
1011-571 Advanced Photography II .....	2
1011-572 Advanced Photography III .....	2
1011-573 Advanced Photography IV .....	2

### 4. Individual Study and Thesis

1001-600 Master's Thesis I .....	2
1001-601 Master's Thesis II .....	2
1001-611 Individual Study I .....	2-4
1001-612 Individual Study II .....	2-4
1001-620 Field Course in Art I .....	2-6
1001-621 Field Course in Art II .....	2-6

### II. Basic Professional Education .....6-9

May be waived for those in non-teaching areas

### III. Free Electives .....6-8

Minimum: 32 semester hours

### IV. Final oral examination in relation to thesis project.

## FRENCH

**Graduate Advisor:** Professor Madeleine Sergent

The graduate program in French is designed to prepare students for both teaching and research in language and literature.

A Master of Arts degree opens opportunities to teach in both community colleges and high schools and provides a solid foundation for students interested in continuing their studies toward a Doctor of Philosophy degree. Graduate training in French is also increasingly useful for positions in government and industries concerned with French-speaking areas of the world.

### Admission Requirements

Admission is open to students who hold a bachelor's degree and have completed at least 24 semester hours of undergraduate French or its equivalent. Students applying for admission are required to present their Graduate Record Examination scores for the Advanced Test in French in addition to the standard college requirements for admission to graduate study.

After acceptance, the candidates will consult the graduate advisor to plan their programs. The course program must be approved by the graduate advisor each semester, before registration.

Individuals holding the bachelor's degree and showing an adequate proficiency in French may enroll in graduate courses, even though they do not wish to enter the Master of Arts program.

### Requirements for the Master of Arts Degree in French

A minimum of 32 credits of graduate work must be completed for the Master of Arts degree. A thesis for the Master's degree is optional, but 4 credits will be awarded for a thesis, on approval. In such a case, the 603 Research Seminar will be waived.

The Master of Arts final examination will consist of two sessions of written examinations covering the history of French language and French literature from the Middle Ages to the present. Questions will be based on a reading list and subject matter covered in the program courses.

	<i>semester hours</i>
I. Basic Professional Education .....	6
II. Specialization Courses: .....	5
a) Required Courses	
1102-505 History of the French Language .....	3
1102-603 Research Seminar .....	2
b) Electives Courses .....	15
These courses will be offered on a rotating schedule so as to enable students preparing for their Master's degree to take at least one course in each century within a year, summer session included.	
III. Free Electives .....	6
	<i>Minimum: 32 semester hours</i>
IV. Comprehensive Examination	

## GEOSCIENCE

**Graduate Advisor:** Professor Imad E. Hamdan

The graduate programs in geoscience are designed to enable the student to pursue further study in the various areas of the department for professional or personal reasons, to further his preparation for the teaching profession, or for a career requiring advanced training for teachers in the field.

### Admission Requirements

Prior to matriculation the student should have completed a subject matter background of at least twenty-four semester hours in the area of specialization, as well as a sufficient background in related sciences and basic mathematics. In cases of a weak undergraduate background, prerequisite courses, not for graduate credit, may be assigned.

Candidates must fulfill the other criteria for graduate matriculation as listed in this bulletin. Each candidate's background and credentials must be received and approved by the graduate advisor for the department.

## Requirements for the Master of Arts Degree in Geoscience

For the arts and science student, a graduate program is designed to give opportunity for in-depth study in the broad field of geoscience (geology). The program provides sufficient flexibility through electives so that emphasis in metamorphic and igneous geology, sedimentology and paleontology, or oceanography and marine geology is possible. Some of the courses for the oceanography and marine geology emphasis will be taken at the various sites of the New Jersey Marine Sciences Consortium.

Thirty-two semester hours are required. Four hundred level courses will not be given credit unless there is written approval of the department graduate advisor. Additional hours may be required to compensate for any deficiencies in the applicant's undergraduate record.

Degree candidates employed in the field of education may use six semester hours of free electives for the selection of graduate courses in the area of professional education.

- |      |   |                            |
|------|---|----------------------------|
| I.   | Specialization  | 26 semester hours          |
| A.   | Required Courses  | <i>semester hours</i>      |
|      | 1914-446 Sedimentology .....  | 3                          |
|      | 1914-502 Advanced Physical Geology .....                                      | 4                          |
|      | 1914-521 Optical Mineralogy .....   | 4                          |
| B.   | Geoscience Elective Courses.....  | 11-13                      |
| C.   | Research requirement must be completed by one of the procedures listed below: |                            |
|      | 0834-505 Research Seminar in Science .....                                    | 2                          |
|      | or  |                            |
|      | 1914-650 Thesis.....  | 4                          |
| II.  | Free Electives  | 6 semester hours           |
| III. | Comprehensive Examination   |                            |
|      |   | Minimum: 32 semester hours |



## HEALTH EDUCATION

**Graduate Advisor:** Professor Harry H. Hoitsma

The graduate program, leading to a Master of Arts degree, provides advanced study for students preparing for positions in school and community health education programs.

Required and elective course work in the Department of Health Professions, related courses in other departments in the College and a research experience culminating in the completion of a thesis and a comprehensive oral examination comprise the essential aspects of the program.

The variety of educational experiences provided in the program is offered in an effort to prepare school and community health educators for the health challenges of the future. The development of an historical perspective is provided along with an emphasis on specific contemporary health problems. The examination of recent developments in health education combines with the interpretation of important scientific advancement to form the foundational basis of this program.

### Admission Requirements

A major or minor in health education from an accredited college or university constitutes a minimum requirement for admission. Exception to this requirement can be made in the health education program for candidates with degrees in closely related areas. A candidate for the Master of Arts degree in Health Education should consult the appropriate graduate advisor before matriculation. The student with a minor or less preparation in health education must undertake designated prerequisites as part of his program. The student with a major in health education may be requested to undertake additional work where deficiencies are apparent. The prerequisite requirements will be in addition to the minimum 32 semester hour work program.

### Requirements for the Master of Arts Degree in Health Education

I. Basic Professional Education	6-9 semester hours
	<i>semester hours</i>
0824-503 Methods of Research (Required) .....	3
II. Specialization	12-20
A. Core Courses Required of All Candidates .....	12
0837-525 History and Foundations of Health .....	3
0837-526 Curriculum Development in Health Education .....	3
0837-528 Evaluation in Health .....	3
0837-603 Research Seminar in Health Education (Required of all candidates except those who enroll for 0826-650, Research Seminar and Thesis Writing) .....	3
B. Health Education Electives .....	0-8
The selection of health education electives will be determined through advisement and will be based on the needs and interests of each individual.	
III. Free Electives	4-9 semester hours

#### IV. Comprehensive Examination

A comprehensive oral examination is required of all candidates for the Master of Arts degree in health education. Those students who elect course 0826-650 are not required to take this examination.

Minimum requirements: 32 semester hours

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## HOME ECONOMICS

**Graduate Advisor:** Professor Katharine B. Hall

The graduate program in Home Economics leads to the degree of Master of Arts in Home Economics. Individual programs can be structured from the courses offered to provide advanced specialized training needed for college and university teaching, for leadership positions in the various professions in business, for social welfare agencies, for public schools and adult education programs, for research and for extension services.

### Admission Requirements

Requirements for admission to graduate study are prescribed by the Graduate Division. A program is developed for each student depending on individual professional goals. Students lacking adequate preparation may be required to take additional courses at the undergraduate level as prerequisites to graduate study.

### Requirements for the Master of Arts Degree in Home Economics

<b>I. Specialization</b>	20 semester hours
A. Courses required of all candidates.....	11 semester hours
	<i>semester hours</i>
1301-500 Contemporary Issues in Home Economics .....	2
1301-509 Research Seminar .....	3
1301-540 Interdisciplinary Study of the Family .....	3
0824-503 Methods of Research .....	3
B. Professional Home Economics Emphasis	
Select 9 semester hours from one of the following groups:	
1. Home Economics Education	
1301-501 Seminar in Home Economics Education .....	3
1301-503 Program Development in Family Life Education .....	3
1301-505 Behavior Modification in Home Economics Programs ..	3
1301-506 Supervision of Home Economics .....	3
1301-403 Consumer Education Techniques .....	2
1301-404 Evaluation in Home Economics .....	3
2. Home Management — Consumer Economics	
1301-530 Consumer Behavior .....	3
1301-531 Family Financial Problems .....	3
1301-532 Family and Consumer Economics .....	3
1301-535 Consumer and Family Law .....	3
1301-560 Housing the Family .....	3
1301-570 The Management of Family Resources .....	3
1301-571 Problem Solving in Family Counseling .....	3
1301-572 Management Seminar .....	3
1301-403 Consumer Education Techniques .....	2
3. Family Relations — Child Development	
1301-514 The Child in the Family .....	3
1301-542 Dynamics of Family Interaction .....	3
1301-544 Intercultural Study of the Family .....	3
1301-445 The Inner City Family .....	3

## II. Electives

## A. Courses in Home Economics

3-9 semester hours

Each 500 level course has as its prerequisite a course satisfactorily completed within the last 5 years in the same area of study on the graduate or undergraduate level.

semester hours

1301-501 Seminar in Home Economics Education .....	3
1301-503 Program Development in Family Life Education .....	3
1301-505 Behavior Modification in Home Economics Program .....	3
1301-514 Child in the Family .....	3
1301-520 Clothing and Human Behavior .....	3
1301-530 Consumer Behavior .....	3
1301-531 Family Financial Problems .....	3
1301-532 Family and Consumer Economics .....	3
1301-535 Consumer and Family Law .....	3
1301-542 Dynamics of Family Interaction .....	3
1301-544 Intercultural Study of the Family .....	3
1301-560 Housing the Family .....	3
1301-570 The Management of Family Resources .....	3
1301-571 Problem Solving in Family Counseling .....	3
1301-572 Management Seminar .....	3
1301-580 New Findings in Nutrition .....	3
1301-403 Consumer Education Techniques .....	2
1301-404 Evaluation in Home Economics .....	3
1301-405 Home Economics in the Middle School .....	3
1301-408 Workshop in Home Economics .....	2
1301-445 The Inner City Family .....	3

## B. Courses outside Home Economics

3-9 semester hours

Minimum: 32 semester hours

III. Comprehensive Examination, both oral and written, to be taken after completing 24 semester hours of graduate work.

IV. Candidates who choose to write a thesis will register for Graduate 600 for four semester hours credits. These credits will be included in Area I, Item B.



## INDUSTRIAL EDUCATION AND TECHNOLOGY

*Graduate Advisor:* Professor Arthur W. Earl

Graduate study in the Department of Industrial Education and Technology is designed to improve the professional training of industrial education teachers in regard to becoming more proficient in teaching through study of recent trends and new developments in the fields, improving the organization of the industrial arts laboratory and providing a basis for work in administration and supervision. Advanced work in industrial education and related fields which broaden professional experiences and accent industrial concepts is emphasized.

Graduate programs of students matriculated in the Department of Industrial Education and Technology are tailored to the student's needs after consultation with the graduate advisor.

Graduate students matriculated in the Master of Arts degree program who desire to take the Cooperative Industrial Education courses 28-507, 28-508 and 28-509 and 34-582, will arrange the program with the graduate advisor.

Graduate students matriculated in the Master of Arts Degree program who plan to be Supervisors of Industrial Arts will arrange the program with the graduate advisor.

### Admission Requirements

Individuals who have an undergraduate major in this area, but do not wish to work toward a degree, may enroll in graduate courses in the Department. Graduate study toward the Master of Arts degree in Industrial Education and Technology presupposes the completion of an undergraduate major in Industrial Education and Technology.

### Requirements for the Master of Arts Degree in Industrial Education

I. Specialization .....	18-20 semester hours
A. Required Courses	
	<i>semester hours</i>
Professional .....	9
0996-0502 (28-501)	
Curriculum Content & Course Organization .....	3
0996-0509 (28-502)	
Industrial Education Facilities Planning .....	3
0996-0607 (28-603)	
Research Seminar in Industrial Education .....	3
Professional Electives .....	6-9
0996-0501 (28-503)	
Historical & Contemporary Industrial Education Literature .....	3
0996-0505 (28-504)	
Supervision of Industrial Education .....	3
0996-0606 (28-604) Independent Study in Industrial	
Education I, II or III .....	1-3

B. Elective Courses

0-6 semester hours

Elective courses are intended to support the graduate student's tailored program by adding new technical experiences that will support and improve the Master of Arts degree study in Industrial Education and Technology. Elective courses are to be planned as a part of the total Master of Arts degree program with the consent of the graduate advisor.

semester hours

II. Basic Professional Education

6-8

III. Free Electives

6-8

Minimum: 32 semester hours

IV. Comprehensive Examination

A comprehensive written-oral examination, scheduled during the Spring semester, is required of candidates for the Master of Arts degree.

Students who elect Graduate 600 Master's Thesis, in which the student earns four (4) semester hours of credit, are exempt from the comprehensive examination.



MATHEMATICS

Graduate Advisor: Professor William G. Koellner

To meet the needs of graduate students interested in an extensive study of mathematical theory or its applications in particular areas, the department offers a Master of Arts degree in pure and applied mathematics. This program enables a student to concentrate in pure mathematics, applied mathematics, statistics, or computer science. To meet the needs of the teacher of mathematics, the department offers a special combination of mathematics and mathematics education courses.

For students whose mathematical education needs to be updated, the department offers a series of courses and workshops. Courses numbered from 400 to 419 and from 500 to 519 are for this purpose. Such courses may not be credited toward the Master of Arts degree without special permission from the graduate advisor.

Admission Requirements

A candidate for the Master of Arts degree in mathematics should consult the graduate advisor of the mathematics department before matriculation since the choice of graduate courses should be adjusted to the preparation acquired in undergraduate work. The student's work program, for a minimum of thirty-two semester hours of work, is prepared in consultation with the graduate advisor. Any changes in the work program are made only with the written approval of that advisor.

The candidate for the Master of Arts degree must present an undergraduate major of at least 30 semester hours in mathematics. Courses in engineering and science that have a substantial mathematical content may be submitted toward this requirement. Candidates whose undergraduate preparation is deficient in either depth or breadth may be required to complete certain prerequisites which will not carry graduate credit.

Requirements for the Master of Arts Degree in Mathematics  
(Pure or Applied)

	<i>semester hours</i>
I. Two one-year courses selected as follows: .....	12
Analysis: Math 521-2 or Math 525-6	
Algebra: Math 531-2 or Math 535-6	
II. Mathematics Electives: .....	14
Courses selected from: Math 520-569 or	
Math 581-585 or	
Math 420-465	
with at least 12 semester hours at the 500 level.	
III. Free Electives .....	6
IV. Comprehensive Examination in Pure or Applied Mathematics	
Minimum: 32 semester hours	

### Requirements for the Master of Arts Degree in Mathematics (Statistics Concentration)

- I. Statistics Requirement: ..... semester hours  
 Course selected from: Math 540-549 or ..... 15  
 Math 443, 444, 445
- II. Mathematics Electives ..... 11  
 Courses selected from: Math 520-569 or  
 Math 581-585 or  
 Math 420-465
- with at least 6 semester hours at the 500 level.  
 Students must have credit for Math 425-426 and Math 461,  
 or equivalent.
- III. Free Electives ..... 6
- IV. Comprehensive Examination in Statistics

Minimum: 32 semester hours

### Requirements for the Master of Arts Degree in Mathematics (Computer Science Concentration)

- ..... semester hours
- I. Computer Science Requirements ..... 12  
 Courses selected from Math 461, or Math 560, or Math 581-585
- II. Mathematics Electives ..... 14  
 Courses selected from Math 520-569, Math 581-585 or from Math 420-465  
 with at least 9 semester hours at the 500 level. The student must have credit in  
 Math 425-426, Math 431 or Math 436 and Math 443 or Math 444, or equivalent.
- III. Free Electives ..... 6
- IV. Comprehensive Examination in Computer Science.

Minimum: 32 semester hours

### Requirements for the Master of Arts Degree in Mathematics (Mathematics Education Concentration)

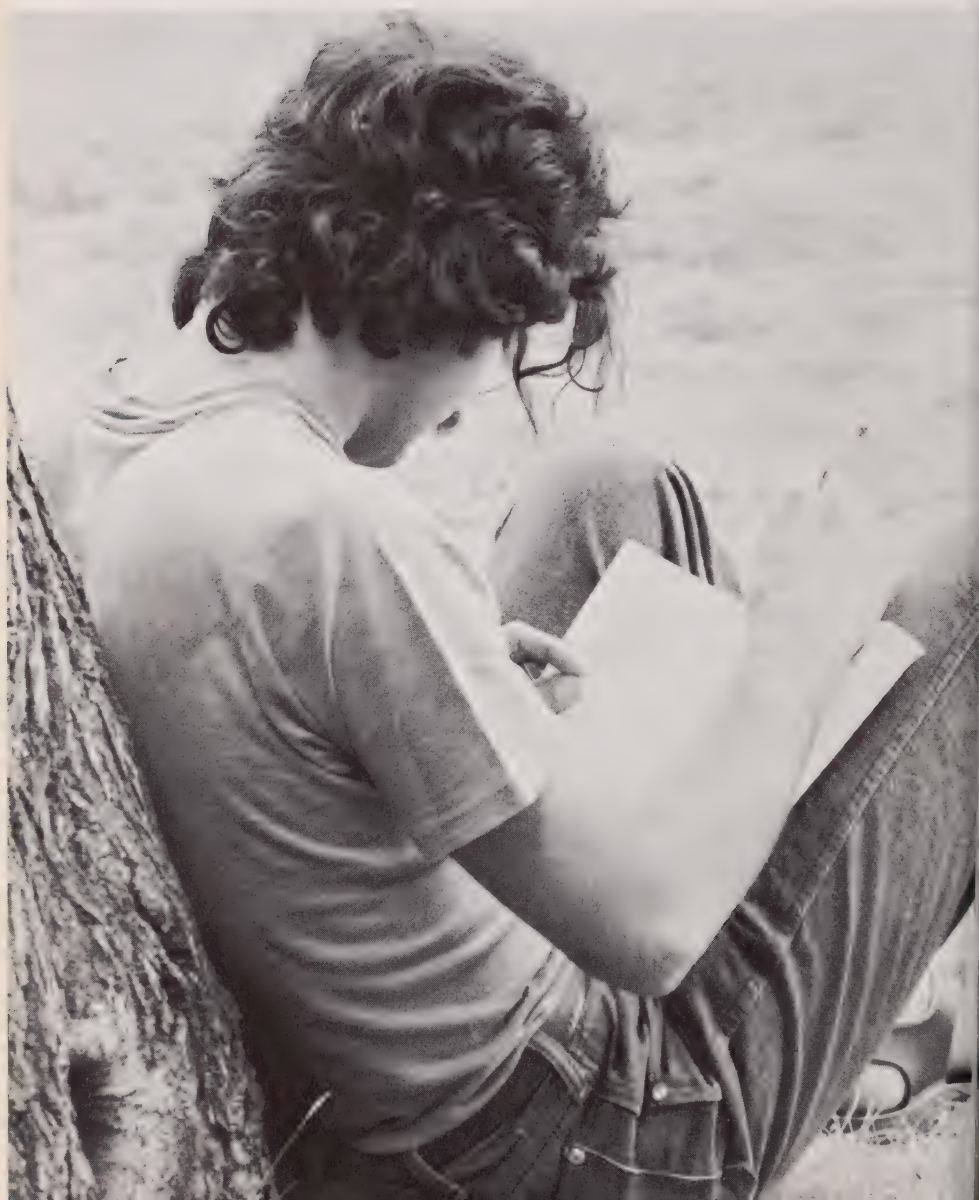
- ..... semester hours
- Pure and Applied Mathematics ..... 14  
 (At least 9 semester hours from courses numbered 520-569, 581-585)  
 Courses must be selected from at least 3 of the 5 areas:
- Algebra: Math 431, 531-2, 535-6
  - Analysis: Math 420, 425-6, 521-2, 525-6
  - Probability & Statistics: Math 443, 444, 540-549
  - Geometry: Math 450, 551, 554, 555
  - Computers: Math 461, 560, 581, 582
- II. Mathematics Education ..... 6



58/*Program Descriptions*

Two courses selected from: Math 570,571,572,573,574,575	
III. Basic Professional Education .....	6
IV. Free Electives .....	6
V. Comprehensive Examination in Mathematics and Mathematics Education	
Minimum: 32 semester hours	

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## MUSIC

**Graduate Advisor:** Professor Jack Sacher

Graduate study in music offers three concentrations pointing to the degree of Master of Arts. These include Applied Music, Theory-Composition and Music Education.

Each of these areas is designed to provide the degree of breadth and depth appropriate to its discipline. Those electing to concentrate on Applied Music will stress performance; students of Theory-Composition will stress the examination of the structure of music and the creative process; those emphasizing Music Education will pursue a variety of skills and seek the breadth of understanding necessary for the music teacher in the American school.

Each concentration provides individual election of courses sufficient to achieve additional emphasis should the student desire it. Such emphasis might include Music History and Literature, for example, or a study of Music and the Fine Arts. Details may be arranged with the graduate advisor.

Theory, Applied Music, and a semester of participation in a musical organization are required in all three concentrations.

### Admissions Requirements

In addition to the general college graduate admission requirements stated elsewhere in this *Bulletin*, all students must present an undergraduate major in music. This is understood to include at least forty semester hours of music courses.

Each student must be able to demonstrate competency in a performing medium acceptable to the Department of Music.

Admission to any course in applied music is by permission only, and must be arranged with the chairman of the Department of Music and with the graduate advisor in the semester prior to the one in which applied music is to be studied.

Applicants to the concentration in Applied Music must audition prior to the semester in which he seeks full admission to the program, such audition to be arranged with the graduate advisor. Auditions will not be scheduled unless all appropriate transcripts have been received by the college. All applications to this program must present an undergraduate major in a specific medium or the equivalent of professional study and/or experience, such equivalency to be accepted at the discretion of the graduate advisor.

Applicants to the concentration in Theory-Composition must submit original compositions (totalling about ten to fifteen minutes of performance) in the semester prior to that in which he or she desires full matriculation.

### Requirements for the Master of Arts Degree in Music

#### (Concentration in Applied Music)

#### Required Courses

- |  |                       |
|--|-----------------------|
| 1. Either of the following sequences in applied music: | <i>semester hours</i> |
| 1004-504, 505 or 1004-506, 507, 508 .....              | 12                    |
| 2. Theory sequence, 1016-511, 016-512 .....            | 6                     |

## 60/Program Descriptions

3. Electives in music history or literature ..... 8
4. Electives in general education, to be selected with the advice of the Graduate Advisor for Music from courses in Art, Language, Literature, History, Philosophy, Anthropology, or Sociology ..... 4
5. Music organizations ..... 2
- II. Special regulations
  1. Each degree candidate in Applied Music must prepare two full recitals. One of these recitals must be performed publicly; the other may be public or before a faculty jury. Each recital is to include at least fifty-five minutes of actual music. In any semester in which Applied Music is studied and no recital is given, a jury examination must be taken during the regular examination period.
  2. Teachers of Applied Music must be members of the Montclair State College faculty or approved by the Department of Music.
    - (a) In all cases, teachers will be assigned by the chairman of the Department of Music.
    - (b) Students registering for Applied Music must arrange for a teacher and must arrange for the proper course with the chairman of the Department of Music prior to the end of the semester previous to the one in which Applied Music is to be studied.
  3. Students who enter the graduate program having previously studied with a member of the Montclair faculty will continue with that teacher unless other arrangements are made with the chairman of the Department of Music.
  4. Accompanists must be secured by the student at his or her own expense.

### **Requirements for the Master of Arts Degree in Music (Concentration in Theory-Composition)**

- I. Required courses *semester hours*
  1. Applied Music, selected with the cooperation of the chairman of the Department of Music from any of the following: 1004-500, 501, 502, 503 ..... 2
  2. Private study in composition, 1061-518, 519 ..... 6
  3. Seminar in Historical Research 1006-604 ..... 3
  4. Theory and composition (must include 1016-511, 512 sequence) .. 9
  5. Electives in general education, to be selected with the advice of the graduate advisor in music from courses in the arts or humanities .... 4
  6. Music electives ..... 8
- II. Special regulations
  1. All candidates must compose a work in one of the larger forms for orchestra or vocal ensemble or chamber group and arrange for a public performance.
  2. No more than two semesters (4 semester hours) of work with one of the music organizations may be credited in the area of music electives.



**Requirements for the Master of Arts Degree in Music  
(Concentration in Music Education)**

I. Required courses

*semester hours*

- |  |   |
|--|---|
| 1. Applied music, selected with the cooperation of the chairman of the Department of Music from any of the following: 1004-500, 501, 502, 503 510B ..... | 2 |
| 2. Music Education .....   | 9 |
| 3. Education or Psychology .....   | 3 |
| 4. Theory sequence 1016-511, 512 .....   | 6 |
| 5. Electives in general education .....  | 4 |
| 6. Music electives .....   | 4 |
| 7. Music organizations .....   | 2 |

II. Special regulations

1. All Music Education degree candidates must pass the Comprehensive Examination in music, covering theory, pedagogy and music history/literature, in accordance with the regulations and calendars published by the Division of Graduate Studies.
2. Recognizing the wide array of skills demanded in the area of music teaching, the Department encourages students to explore new fields of Applied Music. Students may pursue these studies at any level of competency to the extent that teachers are available.





PHYSICAL EDUCATION

Graduate Advisor: Professor Joan Schleede

The graduate program in physical education is designed to assist the student in gaining depth and understanding in his specialization. It provides a variety of opportunities for the student to assess the function of physical education in modern society through: the examination and evaluation of recent developments in education and the field of specialization) experimentation with new methods and techniques; the survey of current, as well as historical documents.

Admission Requirements

A bachelor's degree with a major or minor in Physical Education from an accredited college or university constitutes the minimum requirement for admission. A candidate for the Master of Arts degree should consult the Graduate Advisor before matriculation. The student may be requested to undertake additional work where deficiencies are apparent. The prerequisite requirements will be in addition to the minimum 32 semester hour program.

Requirements for the Master of Arts Degree in Physical Education

I. Specialization	semester hour
A. Core Courses	12
0835-603 Research Seminar in Physical Education (Required of all candidates except those students who enroll for Grad. 600—Prerequisite: 0824-503)	3
0835-575 Philosophical and Sociological Foundations of Physical Education	3
0835-576 Curriculum Development in Physical Education, or	3
0835-577 Administration and Supervision in Physical Education	3
0835-579 Advanced Measurement and Evaluation	3
B. Electives	0-8
The selection of electives will be determined through advisement and will be based on the needs and interests of each individual.	
II. Basic Professional Education (0824-503, Methods and Instruments of Research, is required.)	6-9
III. Free Electives	6-8
Minimum: 32 semester hours	
IV. A comprehensive oral examination is required of all candidates for the Master of Arts degree.	

## PSYCHOLOGY

*Graduate Advisor:* Professor Abbie Shapiro

The Department of Psychology offers three distinct and inter-related graduate programs and one inter-disciplinary program.

1. The Master of Arts in Educational Psychology aims to increase the student's knowledge of the application of psychological theory to educational practice.
2. The Master of Arts in Psychology is designed primarily as an intermediate degree. This program prepares for advanced studies in many psychological fields such as, counseling psychology, school psychology, personality, social psychology, industrial psychology, developmental psychology, etc.
3. The School Psychologist Certification Program is designed to meet the need for school psychologists by offering an integrated sequence of courses and supervised school, clinical and community experiences.

### Admission Requirements

Candidates for the Master of Arts in Psychology and the School Psychologist Certification programs must meet the following department requirements:

1. 12 undergraduate credits in psychology
2. A laboratory course in experimental psychology and a course in statistics\*
3. Miller Analogies Test and the Advanced Psychology Test of the Graduate Record Examination
4. Approval by departmental committee

### Requirements for the Master of Arts Degree in Educational Psychology

I. Basic Courses—All required—15 semester hours	<i>semester hours</i>
2001-510 Research Methods in Psychology .....	3
2201-560 Advanced Educational Psychology .....	3
2001-561 Developmental Psychology .....	3
2001-578 Psychological Tests and Measurements .....	3
2001-660 Seminar in Educational Psychology .....	3
II. Educational Foundations—Select 6 semester hours .....	3
2001-538 Ethnopsychology (also 91-538) .....	3
2001-553 Urban Psychology .....	3
4905-565 Community Resources and Youth .....	3
2202-534 Anthropology and Education .....	3
2202-535 Ethnology I .....	3

\*If the student lacks experimental psychology or statistics, he may be admitted as an unclassified graduate student by including such requirements in his program, to be taken without credit.

## III. Specialization—Select 6 semester hours

2001-555 Psychological Aspects of Poverty .....	3
2001-564 Psychology and Education of the Physically and Mentally Handicapped .....	3
2001-565 Psychology and Education of the Socially and Emotionally Handicapped .....	3
2001-566 Psychology and Education of the Gifted .....	3

## IV. Electives—Select 6 semester hours

2001-550 Quantitative and Statistical Methods .....	3
2001-552 General Social Psychology .....	3
2001-562 Dynamics of Human Behavior .....	3
2001-563 Theories of Learning .....	3
2001-573 Physiological Psychology .....	3
2001-580 Personality .....	3
2001-581 Motivation .....	3

## V. Examination

A candidate is required to pass a written comprehensive examination prior to graduation.

VI. A candidate may write a thesis upon approval of his advisor. Four semester hours will be given for the completion of the thesis and the credits will be included in area IV.

**Requirements for the Master of Arts Degree in Psychology**I. Basic courses—all required—13 semester hours *semester hours*

2001-520 Advanced General Psychology, I .....	3
2001-521 Advanced General Psychology, II .....	3
2001-550 Quantitative and Statistical Methods .....	3
2001-600 Thesis .....	4

## II. Elective Courses—Select 13 semester hours

2001-551 Experimental Psychology .....	3
2001-552 General Social Psychology .....	3
2001-553 Urban Psychology .....	3
2001-554 Psychology in Business And Industry .....	3
2001-555 Psychological Aspects of Poverty .....	3
2001-561 Developmental Psychology .....	3
2001-563 Theories of Learning .....	3
2001-567 Abnormal Psychology .....	3
2001-568 Psychology of Group Dynamics .....	3
2001-573 Physiological Psychology .....	3
2001-578 Psychological Tests and Measurements .....	3
2001-579 Seminar in Psychological Tests and Measurements .....	3
2001-580 Personality .....	3
2001-581 Motivation .....	3
2001-582 Behavior Modification .....	3
2001-583 Sensation and Perception .....	3
2001-584 Comparative Psychology .....	3
2001-593 Clinical Interviewing .....	3
2001-663 Independent Study .....	3

III. Free Electives .....	6
	Total 32

IV. Examinations—Candidate is required to pass a written comprehensive examination before acceptance of the thesis outline and an oral examination upon completion of the thesis.

V. Department Colloquium (0 semester hours) — Graduate students and faculty are invited to attend this seminar. Each student presents his proposed thesis. The faculty and guests also present current research.

### Requirements for School Psychologist Certification

(N.J. State Certificate as a School Psychologist)	60 semester hours
I. Educational Foundations—Select 12 semester hours	semester hours
0821-521 Contemporary Educational Thought .....	3
2001-538 Ethnopsychology .....	3
2001-553 Urban Psychology .....	3
2001-555 Psychological Aspects of Poverty .....	3
2001-560 Advanced Educational Psychology .....	3
2001-660 Seminar in Educational Psychology .....	3
2202-535 Ethnology I .....	3
2208-565 Sociology of Youth .....	3
II. Education of the Handicapped—Select 6 semester hours	
2001-564 Psychology and Education of the Physically and Mentally Handicapped .....	3
2001-565 Psychology and Education of the Socially and Emotionally Handicapped .....	3
II. Testing and Clinical Techniques—25 semester hours	semester hours
2001-510 Research Methods in Psychology .....	3
*2001-550 Quantitative and Statistical Methods .....	3
*2001-574 Individual Intelligence Testing .....	3
*2001-575 Projective Techniques I .....	3
*2001-576 Projective Techniques II .....	3
*2001-578 Psychological Tests and Measurements .....	3
2001-579 Seminar in Psychological Tests and Measurements .....	3
2001-590 Diagnostic Case Studies .....	3
*2001-593 Clinical Interviewing .....	3
2001-661 Practicum in School Psychology .....	3
2001-662 School Psychologist Externship .....	3
Personality and Behavior Development—Select 12 semester hours	semester hours
2001-561 Developmental Psychology .....	3
2001-563 Theories of Learning .....	3
2001-567 Abnormal Psychology .....	3
2001-573 Physiological Psychology .....	3
2001-580 Personality .....	3
2001-582 Behavior Modification .....	3
Electives—Select courses to balance the program of 60 semester hours— th permission of graduate advisor only.	

Total: 60 semester hours

\*starred courses required for certification. See Director of Program for externship arrangements.



## Interrelated Graduate Program in Special Education and Special Pupil Services: Teacher of the Emotionally Disturbed

Leading to the Master of Arts degree — 38 semester hours (Minimum residency — one year and one summer) and eligibility to apply for New Jersey certification in special education as teacher of the emotionally disturbed.

Candidates for this program must meet the admission requirements of the Division of Graduate Studies. In addition, candidates must meet the following Department requirements:

- (1) Miller Analogies Test.
- (2) Interview with Departmental Committee and approval of Committee.
- (3) Preparation in Psychology and Education courses is desirable. Teaching certification is not required.

### Psychology, Communication Disorders, Reading, and Education Requirements

#### I. Basic Courses

Required — one of the following: *semester hours*

34-A503 Methods and Instruments of Research ..... 3

34-A507 Measurement and Evaluation ..... 3

65-A510 Research Methods in Psychology ..... 3

65-A578 Psychological Tests and Measurements ..... 3

Two of the following:

37-A500 Nature of Reading ..... 3

65-A560 Advanced Educational Psychology ..... 3

97-A583 Language Disorders of Children ..... 3

Total: 9 semester hours

Electives approved by advisor may be taken in place of, or in addition to, required courses if equivalencies of above are presented.

#### II. Core Courses

Required: *semester hours*

65-A561 Developmental Psychology ..... 3

65-A565 Psychology and Education of the Socially and Mentally  
Handicapped Child ..... 3

97-A620 Orientation and Observation in Special Education ..... 3

Total: 9 semester hours

Electives approved by advisor may be taken in place of, or in addition to, required courses if equivalencies of above are presented.

#### III. Specialization

*semester hours*

65-540 Remedial Techniques with Emotionally Disturbed Children .. 3

65-541 Curriculum Development and Methods of Teaching

Inner-City Children ..... 3

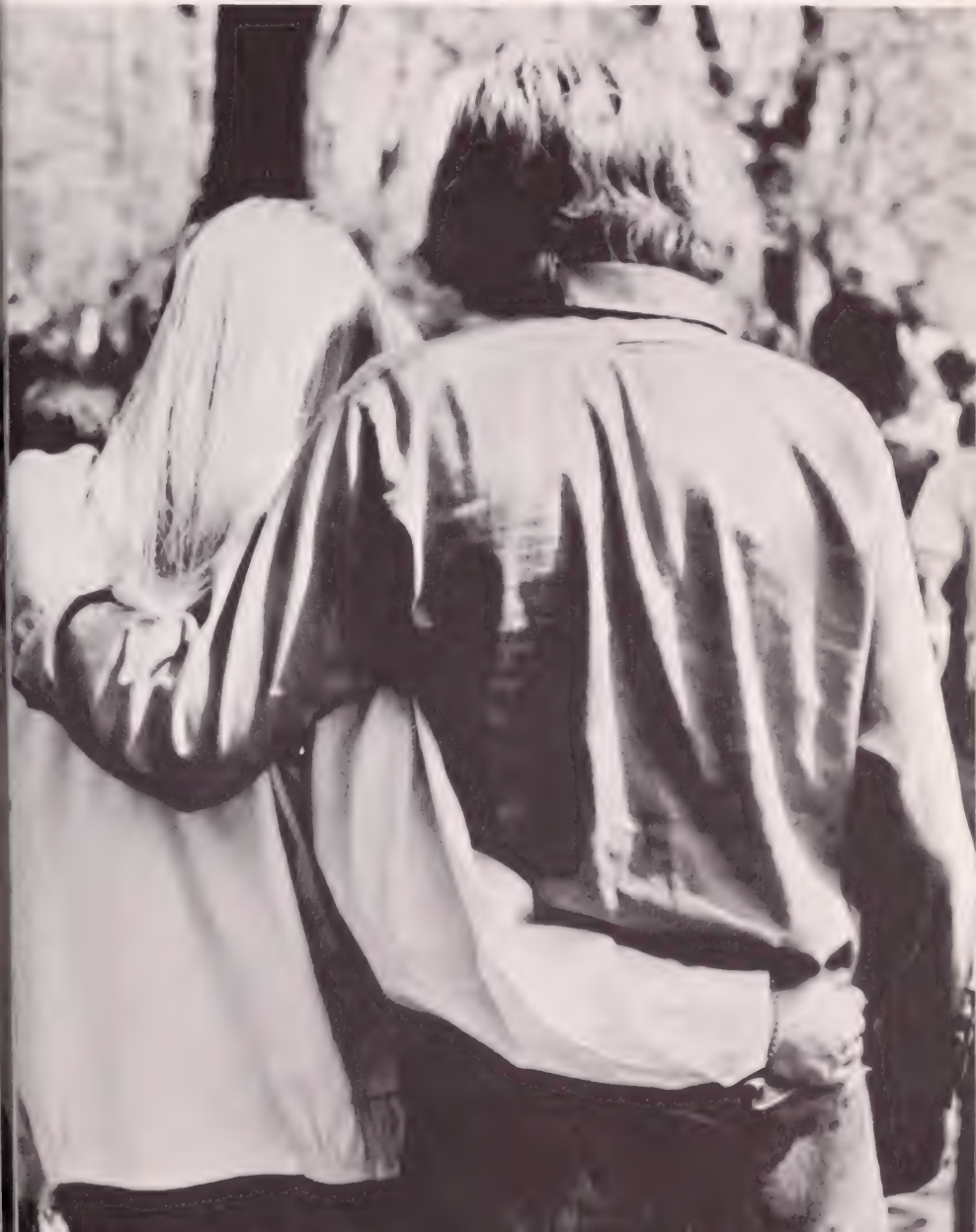
65-545 Seminar in Emotional Disturbances of Children I ..... 3

65-546 Seminar in Emotional Disturbances of Children II ..... 3

65-553 Urban Psychology ..... 3

65-663	Independent Study .....	2
65-664	Practicum in Teaching Emotionally Disturbed Children I .....	3
65-665	Practicum in Teaching Emotionally Disturbed Children II .....	3
Total: 20 semester hours		

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READING

Graduate Advisor: Professor Maria E. Schantz

Admission Requirements

Provision is made in this program to matriculate certified teachers who have demonstrated interest and ability suitable to reading education. These applicants shall furnish acceptable evidence of talent appropriate for competence in reading instruction. Evidence, for example, may be in the form of letters of recommendation from the school system superintendent or the school building principal.

Requirements for the Master of Arts Degree in Reading

Satisfactory completion of not fewer than thirty-three semester hours of work as follows: (In exceptional cases appropriate substitutions or changes may be made in these requirements upon approval by the program advisor).

	<i>semester hours</i>
I. Basic Professional Education .....	6
0824-503 (34-503) Methods of Research (Required) .....	3
II. Specialiation in Reading .....	21
A. Required courses for all candidates:	

	<i>semester hours</i>
0808-500 (37-500) The Nature of Reading .....	3
0808-511 (35-511) Case Studies of Reading Difficulties, Part I .....	3
0808-513 (37-513) Corrective and Remedial Reading, Part I .....	3
0808-505 (37-505) Research Seminar in Reading .....	2
B. Elective Courses in Reading	
Students must take at least one of these courses. Selections will be determined through advisement.	
0808-503 (37-503) Literature for Adolescents .....	2
0808-504 (37-504) Reading Needs of Adult Learners .....	3
0808-502 (37-502) Admistration and Supervision of Secondary School Reading Programs .....	2
0808-501 (37-501) Techniques of Reading Improvement in Secondary Schools .....	2
0808-512 (37-512) Case Studies of Reading Difficulties, Part II .....	2
0808-514 (37-514) Corrective and Remedial Reading: Part II .....	3
0808-510 (37-510) Field Experience in Reading .....	2

C. Electives related to Reading may be taken with the advisor's approval from the following areas:

Curriculum and Instruction	Literature
Group Dynamics	Media
Learning Disabilities	Psychology
Linguistics	
Teaching English as a Second Language	

Other courses offered in the School of Educational and Community Services may be taken.

III. Free electives .....6 semester hours

IV. Additional Departmental Requirements

- A. Supervised clinical experience within the framework of a required course and/or in addition to course work. Arrangements will be made to provide this experience in the Montclair State College Campus Reading Center.
  - B. A written comprehensive examination, supplemented, if necessary by an oral examination .....Minimum: 33 semester hours
- 





## SOCIAL SCIENCES

**Graduate Advisors:** Professor Richard J. Barker, History  
 Professor Byong-Suh Kim, Sociology  
 Professor Edward W. Johnson, Political Science  
 Professor Bertha B. Quintana, Anthropology,  
 Economics and Geography

The Departments of Anthropology, Economics, Geography, History, Political Science and Sociology offer advanced courses leading to the degree of Master of Arts. Degree candidates devote a major portion of their work to, and prepare for a final comprehensive examination in, one of these individual fields. At present, the program is designed mainly for those students who wish to work toward the Master's degree on a part-time basis. Part-time students normally carry six hours of credit per semester (nine hours maximum) during the regular academic year and are encouraged to attend the summer session of the College. For graduate students in residence, twelve to sixteen hours of work each semester is considered a full-time program, with twelve hours recommended for graduate assistants. A limited number of graduate assistantships is available; for information write to the Director of Graduate Studies.

### Admission Requirements

In addition to the general requirements for admission to the graduate program at Montclair, candidates must present an undergraduate record showing a total of at least 30 semester hours in history and/or the social sciences. For candidates with weak undergraduate preparation in the major field, prerequisite courses, not for graduate credit, may be required.

### Requirements for the Master of Arts Degree in Social Sciences

	<i>semester hours</i>
I. Social Science or History Concentration .....	12-15
A. Minimum of 12 semester hours selected from one of the following areas: .....	12
American History, Anthropology, Economics, European History, Geography, Non-Western Culture, Political Science, Sociology	
II. Social Science, Behavioral Science or History Electives .....	9
Electives selected from courses related to the student's area of concentration; candidates concentrating in history select 9 semester hours in social science electives.	
III. Independent Study and Comprehensive Examination .....	2
Every Master's degree candidate is required to register for 4905-603, Reading Seminar in History and the Social Sciences, which entails directed independent study in preparation for a three-hour written comprehensive examination in the area of concentration.	
IV. Free Electives .....	6-9

Minimum: 32 semester hours

4905-603 (90-603) Reading Seminar in History and the Social Sciences

Required for all Master's degree candidates concentrating in Anthropology, Economics, Geography, History, Political Science, or Sociology. Entails

directed independent study in preparation for a three-hour written comprehensive examination in the area of concentration.

The examination is given two times each year, in March and in October. Students must register for the March examination during the fall semester and for the October examination during the spring semester.

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## SPANISH

**Graduate Advisors:** Professor John E. Hwang

The program of graduate work in Spanish is designed to prepare students for careers in teaching, for research in language and literature, and for other professional positions demanding a knowledge of Spanish. The program will help in the preparation of interpreters; translators; consular service and diplomatic service in Spanish-speaking countries; Spanish newspaper and magazine editors and organizers of projects for Spanish-speaking communities; representatives of commercial companies in Spain and Spanish America. The Master of Arts degree opens opportunities to teach in high school and in community colleges.

### **Admission Requirements**

The Master of Arts program in Spanish is open to students who have completed at least 24 semester hours of undergraduate Spanish or its equivalent and hold a bachelor's degree.

Students who hold a bachelor's degree or its equivalent may enroll in graduate courses without obligation to follow a Master's degree program, if they have 24 credit hours in Spanish or its equivalent.

After acceptance, candidates will consult the graduate advisor to plan their programs.

A minimum of 32 semester hours of graduate work must be completed for the Master of Arts in Spanish.

By way of a research component, candidates may choose either to do independent work by electing Spanish 603, the Research Course, or to write a thesis reflecting original research. Spanish 603 carries 2 semester hours. Students interested in writing a thesis should consult the graduate advisor in Spanish at the appropriate time. A thesis carries 4 semester hours credit.

### ***The Master of Arts Comprehensive Examination:***

The comprehensive examination comprises three different fields:

1. History of the Spanish Language
2. Literature of Spain
3. Literature of Spanish America

After completing 32 semester hours the candidate applies for the comprehensive examination, with the understanding that the candidate will devote either one semester or a summer preparing for the comprehensive.

A written examination of 9 hours is offered in the second week of March or in the second week of October. The written examination will be divided into two days, one week apart, as follows: in the first week the candidate will take the examination in history of the language and in Spanish literature (five hours allowed). In the second week the candidate will take the examination in Spanish-American literature.

One week after taking the second written examination the candidate is given an oral examination on the three fields by the whole graduate staff. The Dean of Humanities and the Chairman of the Spanish Department are invited

to be present at the oral examination, which is offered only to those candidates who have passed a satisfactory written examination in the three specified fields.

A reading list for the three fields in which the candidates are to be examined is given to the students at the time of the preparation of the work program.

### Requirements for the Master of Arts Degree in Spanish

*semester hours*

- |   |    |
|---|----|
| I. Specialization courses .....               | 20 |
| II. Free electives in foreign languages ..... | 6  |
| III. Comprehensive examination                |    |

### Course Requirements

- I. Specialization (consisting of 8 hours of required courses listed below and 18 hours of electives)

#### Required Courses

- |  |   |
|--|---|
| 1105-505 History of the Spanish Language ..... | 3 |
| 1105-603 Research .....                        | 2 |

#### Foundation Course

- |   |                  |
|---|------------------|
| 1105-506 Advanced Spanish Phonetics ..... | 3                |
|   | 8 semester hours |

#### Elective Courses

These courses will be elected, with departmental approval, and will be offered on a rotating basis to enable students preparing for their Master's degree to take courses in both areas of Spanish and Spanish-American literature. Students specializing in Spanish may elect some courses from other Foreign Language offerings.

#### Spanish Area

*semester hours*

- |  |   |
|--|---|
| 1105-516 Medieval Spanish Literature .....                                       | 3 |
| 1105-521 The Renaissance Novel and the Picaresque of the<br>Baroque Period ..... | 3 |
| 1105-522 The Theater of the Golden Age .....                                     | 3 |
| 1105-524 Seminar in Cervantes .....  | 3 |
| 1105-526 Spain in the XIXth Century .....  | 3 |
| 1105-532 The Short Story in Spain .....  | 3 |
| 1105-533 Contemporary Spanish Theater .....                                      | 3 |
| 1105-534 Spanish Prose of the XXth Century .....                                 | 3 |
| 1105-535 Contemporary Spanish Poetry .....                                       | 3 |

#### Spanish-American Area

- |   |   |
|---|---|
| 1105-540 Sarmiento and His Times .....                      | 3 |
| 1105-541 Spanish-American Novel to 1900 .....               | 3 |
| 1105-542 Spanish-American Novel of the XXth Century .....   | 3 |
| 1105-543 Spanish-American Theater of the XXth Century ..... | 3 |
| 1105-546 Seminar in Modernismo .....                        | 3 |



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1105-548 Spanish-American Essay .....	3
1105-549 The Short Story in Spanish America .....	3
1105-550 Spanish-American Theater to 1910 .....	3
1105-551 Contemporary Spanish-American Poetry .....	3

Minimum: 20 semester hours



## SPECIAL EDUCATION

*Graduate Advisors:* Professor Harold Scholl  
(Communication Sciences and Disorders)  
Professor Walter R. Duryea (Psychology)  
Professor Maria Schantz (Reading)  
Professor Bertram C. Lindemann (Education)

An inter-related program, administered by a coordinating committee has been established to epitomize the professional team interaction concept and to minimize the fragmentation of special programs as they are so often constituted. Specialists who train together and learn together, will hopefully be able to work together in the interests of providing the best possible education for handicapped children. We feel that it is only through developing an understanding of, and appreciation for, what each specialist has to contribute that true cooperation among professional workers will be realized.

The proposed program offers courses in three major groups:

- A. Basic courses
- B. Core courses, and
- C. Specialization

All students entering the program take courses in Areas A and B, with appropriate advisement. Graduate students pursue the curriculum in their selected specialization under Group C. It is possible, with careful selection of electives, to develop skills in more than one area. For example, a major in Speech Pathology can with judicious use of electives meet requirements for Teacher of the Deaf or Learning Disabilities Specialist.

At this time, six specializations are offered and new ones will be added as interest and need develop. The addition of a new specialization does not alter Areas A and B, but only adds to the number of graduate offerings in inter-related programs in special education. See details under Psychology — Inter-related Graduate Program in Special Education and Special Pupil Education and Special Pupil Services: Teacher of the Emotionally Disturbed.



## SPEECH AND THEATER

**Graduate Advisor:** Professor Clyde W. McElroy

Graduate students may pursue a Master of Arts degree to enrich professional activity, prepare for further graduate study or increase their skills as Speech and Theater teachers.

The program has flexibility, permitting the candidate to concentrate in one of these areas: Theater, Speech, or Public Media Arts. Students wishing to enrich their background in all areas may do so instead of concentrating, an approach frequently used by the graduate who is a secondary school teacher. All graduate students will consult with the graduate advisor in selecting those courses that would best prepare them in their areas of concentration.

The facilities include a 1,000 seat major theater and a flexible studio theater, both with remote-control pre-set switchboards; a well equipped scene shop; extensive costume and prop collections, with work rooms; expanding television and film workshop and extensive recording and playback equipment.

### Admission Requirements

Students wishing to matriculate as Speech and Theater majors must have completed the equivalent of at least 18 semester hours from the following areas: Theater, Oral Interpretation, Speech, and/or Mass Communication/Sociology. It is assumed that most of this work will have been in the area selected for graduate concentration. Some students may need to improve their preparatory background with undergraduate courses not offered for graduate credit.

### Requirements for the Master of Arts Degree in Speech and Theater

I. Core Courses	7-9 semester hours
	<i>semester hours</i>
1506 (21)-501 Survey of Research Methods .....	3
1506 (21)-599 Thesis or .....	4
Non-Thesis Option: Selected Courses Recommended By Graduate Committee .....	6
II. Elective Courses within the Areas of Concentration	15 semester hours

#### Theater

1007 (21)-502, 509, 513, 516, 517, 537, 542, 549, 551, 552, 563, 564, 565, 566, 567; — 1506 (21)-572, 598

*Note: A candidate may choose to pursue an emphasis in either Technical Theater or Acting/Directing.*

#### Speech

1506 (21)-524, 525, 553, 559, 565, 570, 572, 580, 585, 598; 0603 (21)-520

#### Public Media Arts — An Interdisciplinary Concentration

A concentration designed to encourage the study of the forces affecting the exchange of information with the public and the techniques utilized in transmission.

0603 (21)-520, 528, 554; 1506 (21)-559, 580, 585. In addition, the graduate



student in this concentration should select six to nine hours of related graduate courses from the total College offerings, with the advisor's permission. Prerequisites as may be required in these courses can be taken as free electives. Typical of the choices are:

- 1510-512 History of the English Language
- 1015-525 An Ethnological Approach to Music
- 2001-552 General Social Psychology
- 2001-562 Dynamics of Human Behavior
- 2001-582 Behavior Modification
- 2202-538 Ethnopsychology
- 2207-502 Modern Political Analysis
- 2208-560 Sociological Theory
- 2208-562 Social Change

III. Free Electives (Can be utilized as necessary for graduate course prerequisites and/or professional education courses.) ..... 10 semester hours  
 Total ..... 32-34 semester hours

IV. Additional Departmental Requirements:

1. Written Comprehensive Examination
2. Demonstration of Oral Competence: Candidate must demonstrate proficiency in handling speech in a public situation.

## Graduate Course Offerings

### Theater

	<i>semester hours</i>
1007 (21)-500 Independent Study .....	By arrangement
1007 (21)-502 Theater Management .....	3
1007 (21)-519 Theater Criticism .....	3
1007 (21)-513 Stage Lighting Design .....	3
1007 (21)-516 Advanced Directing Workshop .....	3
1007 (21)-517 Advanced Acting Workshop .....	3
1007 (21)-537 Contemporary Experimental Theater .....	3
1007 (21)-542 Modern and Contemporary Theater History .....	3
1007 (21)-549 Non-Western Drama and Theater .....	3
1007 (21)-551 Advanced Problems in Technical Production .....	3
1007 (21)-552 Internship in Dramatic Production .....	3-7
1007 (21)-563 Scenic Design I: The Legitimate Theater .....	3
1007 (21)-564 Scenic Design II: The Performing Arts .....	3
1007 (21)-566 Seminar in Costume Design and Construction .....	3
1007 (21)-567 Seminar in Dramatic Production .....	3
1007 (21)-599 Thesis .....	4
1007 (21)-600 Independent Study .....	By arrangement

### Speech

1506 (21)-500 Independent Study .....	By arrangement
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1506 (21)-501	Survey of Research Methods	3
1506 (21)-524	Seminar in Persuasion	3
1506 (21)-525	Competitive Forensics	3
1506 (21)-553	Internship in Oral Communication	3-7
1506 (21)-559	Lecture and Lecture Recital	1
1506 (21)-565	Advanced Oral Interpretation	3
1506 (21)-570	Advanced Voice and Speech Improvement	3
1506 (21)-572	Advanced Applied Phonetic Study	3
1506 (21)-580	Revolutionary Rhetoric	3
1506 (21)-585	Seminar in Rhetorical Criticism	3
1506 (21)-598	Special Problems in Speech and Theater	3
1506 (21)-599	Thesis	4
1506 (21)-600	Independent Study	By arrangement

### Public Media Arts

0603 (21)-500	Independent Study	By arrangement
0603 (21)-520	The Broadcast Media and Mass Culture	
0603 (21)-528	Techniques of Broadcast Communication	
0603 (21)-554	Internship in Public Media Arts	3-
0603 (21)-599	Thesis	
0603 (21)-600	Independent Study	By arrangement
0603-500 (21-500)	Independent Study	
1007-500 (21-500)	Independent Study	
1506-500 (21-500)	Independent Study	

Students will arrange the nature of work with the instructor prior to the second meeting of the course.

Written permission must be obtained from the graduate advisor prior to registration. Independent Study may be elected more than once during the graduate program. Credit by arrangement



## **STUDENT PERSONNEL SERVICES**

*Graduate Advisors:* Guidance and Counseling  
Professor Earl C. Davis (Coordinator),  
School Social Work  
Professor Robert B. Williams,  
Professor Thomas L. Millard  
Human Organizational Development  
Professor Alfred H. Gorman

Personnel services in the society of today are an integral part of the American scene. The many efforts of schools, community agencies, industry, state, and federal governments bear witness to the significance of the personnel specialist. Therefore, the programs in student personnel services provide for the preparation of persons who will implement effectively all personnel activities.

The Master of Arts program provides the basic preparation and opportunity to specialize in the study of one area. This is usually sufficient to meet the New Jersey State Certification requirements for the Student Personnel Services Certificate, or the Certificate for School Social Work (Visiting Teacher).

Study at the sixth year level, 30 semester hours beyond the Master of Arts degree, is provided for the student to study in additional areas of personnel services.

An interdisciplinary graduate program in Human Organizational Development and Student Personnel Services is also available.

### **Admission Requirements**

All students must meet the admission requirements for graduate study at Montclair State College. In addition, they must be accepted for matriculation by the Student Personnel Services faculty.

A student accepted for the Master of Arts program will be assumed to be accepted for admission to the advanced programs of this department upon completion of the requirements for the Master of Arts Degree.

A weighted score base will be used in computing the student's eligibility for admission, based on the following:

1. Undergraduate and/or graduate total cumulative grade average.
2. Aptitude tests of the Graduate Record Examination.
3. Departmental Interview.

Students anticipating application for state school certificates must have acquired a permanent state teachers certificate and at least one full year of professional experience before completion of the degree requirements.

### **Requirements for the Master of Arts Degree in Student Personnel Services**

1. Complete a work program of a minimum of 39 semester hours.  
Complete a research document.  
Complete a full semester of intern and practicum experience.  
Maintain a B average in all course work.  
Pass a Comprehensive Examination.

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### I. Required Courses

#### Guidance and Counseling

semester hours

0826-580 (36-580) Principles of Guidance and Counseling ..... 3

0826-582 (36-582) Vocational Guidance and Occupational  
Information ..... 3

Testing and Evaluation ..... 3

0824-578 (34-578) Testing and Evaluation ..... 3

Psychology ..... 6

Selected from courses in the Psychology Department approved by advisor.

Sociological Foundations ..... 6

0826-581 (36-581) Community Resources and Youth ..... 3  
or

2208-578 (96-578) Community Agencies and Resources ..... 3

One other course selected from the Department of Sociology, Educational Foundations, Home Economics (Family Living) and approved by advisor.

Research and Field Work ..... 6

0824-503 (34-503) Methods of Research ..... 3

Field Work and Practicum in an appropriate area  
upon approval of advisor ..... 3

II. Specialization Electives ..... 6

*To be selected with the advice of the graduate advisor*

See Bulletin for course titles and descriptions

Guidance and Counseling: 0826-583 (36-583); 0826-585 (36-585); 0826-586  
(36-586); 0826-587 (36-587); 0826-589 (36-589)

*Higher Education, Adults and Business*: 0826-570 (36-570)

School Social Work: 0826-560 (36-560); 0826-562 (36-562)

Learning Disabilities

School Psychology

### III. Comprehensive Examination

Students anticipating graduation in June or August take the comprehensive examination in March of the same year. For January graduation students take the examination in October.

#### Basic Requirements for Sixth Year Study:

Complete a work program of a minimum of 30 semester hours beyond the Master's Degree.

Prepare a research thesis.

Pass an examination in the major area of concentration.

**GRADUATE FACULTY**  
**School of Education and Community Services**

LAURENCE BELLAGAMBA

*Education*

Ed.D., Columbia University

RONALD F. HAAS

*Education*

Ed.D., Rutgers-The State University

SUSIE BOYCE

*Education*

Ed.D., Rutgers The State University

LAWRENCE B. HAMEL

*Education*

Ph.D., St. John's University

JOSEPH F. BRUNNER

*Reading*

Ed.D., University of Massachusetts

GEORGE D. HEISS

*Education*

Ed.D., Rutgers-The State University

ANNE CASTENS

*Education*

Ed.D., Rutgers-The State University

LAWRENCE B. KENYON

*Education*

Ed.D., University of Colorado

FRANCESCO CORDASCO

*Education*

Ed.D., New York University

GEORGE KING

*Education*

Ed.D., Rutgers-The State University

EARL C. DAVIS

*Education*

Ph.D., New York University

GERHARD LANG

*Education*

Ph.D., Columbia University

VINCENT De SANCTIS

*Education*

Ed.D., Rutgers-The State University

BERTRAM LINDEMANN

*Education*

Ph.D., State University of New York

THOMAS J. FLAGG

*Education*

Ed.D., Rutgers-The State University

JOHN R. MAYER

*Education*

Ed.D., Columbia University

ABRAHAM GELFOND

*Education*

Ph.D., New York University

FRANK MERLO

*Education*

Ed.D., Rutgers-The State University

ALFRED GORMAN

*Education*

Ed.D., Columbia University

NICHOLAS M. MICHELLI

*Education*

Ed.D., Columbia University

DONALD B. GREGG

*Education*

Ed.D., Lehigh University

EARL E. MOSIER

*Education*

Ph.D., University of Michigan



## 82/Graduate Faculty

WENDY G. OXMAN

*Education*

Ph.D., Fordham University

CHARITY RUNDEN

*Education*

Ph.D., Indiana University

EARL K. PECKHAM

*Education*

Ed.D., Columbia University

EIDOLA JEAN TALLEY

*Education*

Ph.D., Boston University

ROBERT PINES

*Education*

Ed.D., University of Miami

ERCELL I. WATSON

*Education*

Ed.D., University of Pennsylvania

THOMAS H. RICHARDSON

*Education*

Ed.D., Columbia University

ROBERT B. WILLIAMS

*Education*

Ed.D., Rutgers-The State University

## School of Fine and Performing Arts

MARDEN BATE

*Voice*

M.A., Columbia University

L. HOWARD FOX

*Speech and Theater*

Ph.D., New York University

MAUREEN CARR

*Theory*

Ph.D., University of Wisconsin

JOHN W. GARTLEY

*Speech and Theater*

Ph.D., University of Michigan

ANNE CHAPMAN

*Fine Arts*

M.F.A., Cranbrook Academy of Art

JOHN GIRT

*Instrumental*

M.F.A., Carnegie Institute of Technology

ARTHUR CHRISTMANN

*Instrumental*

D.S.M., Union Theological Seminary

RUSSELL HAYTON

*Instrumental*

M.Mus., Union Theological Seminary

CARMEN CICERO

*Exhibiting Artist*

B.A., Newark State College

AVRAM KAMPF

*Fine Arts*

Ph.D., New School of Social Research

BRENDA MILLER COOPER

*Voice*

M.A., Columbia University

JEROME LANDSMAN

*Music*

D.M.A., University of S. California

JOHN CZERKOWICZ

*Fine Arts*

M.F.A., Rutgers, The State University

PATRICIA LAY

*Ceramics/Sculpture*

M.F.A. Rochester Institute of Technology

WADE SAMMIS MACCONNELL

*Design/Technical Theater*

M.A., Columbia University

CHARLES H. MARTENS

*Fine Arts*

Ed.D., New York University

WILLIAM C. McCREATH

*Fine Arts*

M.F.A., Cranbrook Academy of Art

CLYDE W. McELROY

*Speech and Theater*

Ed.D., University of Virginia

DONALD MINTZ

*Musicology*

Ph.D., Cornell University

WARD MOORE

*Music*

Ed.D., Columbia University

DOROTHY MORSE

*Music*

Ph.D., New York University

MARIO F. ONEGLIA

*Music*

Ed.D., Columbia University

MURRAY PRESENT

*Instrumental*

B.Mus., Michigan State University

DOROTHY PRIESING

*Instrumental*

M.A., Columbia University

JEROME ROCKWOOD

*Speech and Theater*

Ph.D., New York University

HELENE S. ROSS

*Fine Arts*

M.F.A., Temple University

JACK SACHER

*Music*

Ed.D., Columbia University

ANN G. SEIDLER

*Speech and Theater*

Ph.D., New York University

WILLIAM SHADEL

*Instrumental*

M.Mus., Manhattan School of Music

JONATHON SILVER

*Art History*

M.A., Columbia University

DONALD SOBOLIK

*Speech and Theater*

M.A., University of Nebraska

EMILY STEVENS

*Music Therapy*

M.M.E., University of Kansas

EMILY WATERS

*Instrumental*

M.A., Montclair State College

BRIAN B. WATKINS

*Fine Arts*

M.F.A., Rutgers, The State University

BENJAMIN F. WILKES

*Music*

Ed.D., Columbia University

THOMAS WILT

*Instrumental*

M.Mus., University of Rochester

## School of Humanities

JACK BARSCHI

*English*

Ph.D., New York University

JOHN HWANG

*Spanish/Italian*

Ph.D., University of Oregon

CAROLYN BOCK

*Classics*

Ph.D., University of Michigan

BARRY JACOBS

*English*

Ph.D., Harvard University

GEORGE BRANTL

*Philos./Religion*

Ph.D., Columbia University

DAVID KELLY

*Classics*

Ph.D., University of Pennsylvania

THOMAS BRIDGES

*Philosophy*

Ph.D., Columbia University

HELENE KLIBBE

*French*

Ph.D., Syracuse University

MAURICE CAGNON

*French*

Ph.D., University of Pennsylvania

EDITH LENEL

*German*

Ph.D., University of Koenigsberg

STEVEN EARLEY

*English*

Ph.D., Geneva University

MORRIS McGEE

*English*

Ed.D., New York University

WOLFGANG BERNARD FLEISCHMANN

*Comparative Literature*

Ph.D., University of North Carolina

ANNE MICKELSON

*English*

Ph.D., Rutgers-The State University

ROBERT GLICK

*French*

Ph.D., University of Chicago

ALYCE MILLER

*English*

Ph.D., Pennsylvania State University

FRANK HANSON

*English*

Ph.D., Yale University

ROBERT MILLER

*Linguistics*

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CLAIRE HEALEY

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Ph.D., Columbia University

JOHN V. MOORE

*German*

Ph.D., Princeton University

WALTER L. HEILBRONNER

*German*

Ph.D., University of Michigan

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*English*

M.A., Columbia University

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ANA RAMBALDO  
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Ph.D., Columbia University

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*German*  
Ph.D., Emory University

MARGARITA SCHNEIDER  
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Ph.D., Doctorat de l'Universite  
de Paris

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CARL BREDLAU  
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Ph.D., Rutgers-The State University

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*Mathematics*  
Ph.D., Polytechnic Institute

PAUL CLIFFORD  
*Mathematics*  
M.A., Columbia University

LAWRENCE CRIBBEN  
*Biology*  
Ph.D., Ohio University

GERT DANIELS  
*Biology*  
Ed.D., Columbia University

MARY DERENGOWSKI  
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Ph.D., Columbia University

THOMAS DEVLIN  
*Mathematics*  
Ph.D., Catholic University of America

ROSWELL EWART  
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Ph.D., University of Illinois



86/Graduate Faculty

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Ph.D., New York University

ANDREW GALLOPO

*Chemistry*

Ph.D., Brown University

VLADIMIR GARIK

*Chemistry*

Ph.D., University of Connecticut

IRVIN H. GAWLEY, *Dean*

*Chemistry*

Ed.D., Columbia University

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CHARLES HAMILTON

*Physics/Geoscience*

Ph.D., Virginia Polytechnic Institute

SAMUEL HEFT

*Mathematics*

Ph.D., University of North Carolina

ALFRED HOADLEY

*Biology*

Ph.D., University of Maryland

KENNETH KALMANSON

*Mathematics*

Ph.D., City University of New York

LEAH KODITSCHKE

*Biology*

Ph.D., Rutgers-The State University

LUDWIK KOWALSKI

*Physics/Geoscience*

Ph.D., Doctorat de Science

L'Universite de Paris

STEPHEN KOWALSKI

*Physics/Geoscience*

Ph.D., New York University

S. MARIE KUHNEN

*Biology*

Ph.D., New York University

RICHARD LYNDE

*Chemistry*

Ph.D., Iowa State University

WILLIAM MAK

*Physics/Geoscience*

Ph.D., Rensselaer Polytechnic Institute

EVAN MALETSKY

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J. MICHAEL McCORMICK

*Biology*

Ph.D., Oregon State University

ANNA PAI

*Biology*

Ph.D., Yeshiva University

NANCY PAISLEY

*Chemistry*

Ph.D., University of Illinois

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Ph.D., Stevens Institute of Technology

HELEN M. ROBERTS

*Mathematics*

Ph.D., Johns Hopkins University

MARIE SAWITS

*Biology*

Ph.D., Columbia University

JUDITH SHILLCOCK

*Biology*

Ph.D., Rutgers-The State University

PAUL SHUBECK

*Biology*

Ph.D., Rutgers-The State University

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Ph.D., Rutgers-The State University

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*Mathematics*  
Ph.D., Columbia University

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Ph.D., New York University

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Ed.D., Rutgers-The State University

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*Mathematics*  
Ph.D., University of Michigan

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Ph.D., Oregon State University

MARY LOU WEST  
*Physics/Geoscience*  
Ph.D., Columbia University

THOMAS WILLIAMSON  
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Ph.D., Rutgers-The State University

THOMAS WILSON  
*Chemistry*  
Ph.D., University of Chicago

PHILIP ZIPSE  
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Ph.D., Rutgers-The State University

## School of Professional Arts and Sciences

CHUAN-YU CHEN  
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Ph.D., New York University

ALDEN C. CODER  
*Physical Education*  
Ed.D., Boston University

HOUSTON G. ELAM  
*Business Administration*  
Ph.D., New York University

HENRY O. EVJEN  
*Administrative Sciences*  
Ph.D., Western Reserve University

M. HERBERT FREEMAN  
*Business and Distributive Education*  
Ph.D., New York University

PAUL E. FROELICH  
*Business and Distributive Education*  
Ed.D., New York University

JOSEPH A. GRECO  
*Administrative Sciences*  
Ph.D., New York University

MARTIN L. GREENWALD  
*Industrial Education & Technology*  
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HOWARD L. HAAS  
*Business and Distributive Education*  
Ed.D., Rutgers-The State University

KATHARINE B. HALL  
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HARRY H. HOITSMA  
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## 88/Graduate Faculty

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*Physical Education*  
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LEONARD LUCENKO  
*Physical Education*  
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LOUIS C. NANASSY  
*Business and Distributive Education*  
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ALAN RAPPAPORT  
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*Health Professions*  
Ph.D., University of Michigan

WILLIAM RIDINGER  
*Physical Education*  
Ed.D., New York University

ARTHUR J. ROSSER  
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DORIS H. RUSLINK  
*Home Economics*  
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MAY D. SANDFORD  
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Ph.D., Syracuse University

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*Psychology*  
Ph.D., Columbia University

DAVID TOWNSEND  
*Psychology*  
Ph.D., Columbia University

RHODA UNGER  
*Psychology*  
Ph.D., Harvard University

CHARLES M.B. UTETE  
*Political Science*  
Ph.D., Carlton University

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*Psychology*  
Ph.D., St. John's University

GERALD WOOLF  
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## Recent Program Changes

The following changes have been made in programs in this bulletin:

### Environmental Studies

Environmental Education has been re-titled Environmental Studies, and revised as follows:

The graduate program in Environmental Studies leading to a Master of Arts degree, provides advanced work for students preparing for appropriate positions in schools and community agencies. Most course work and related experiences are conducted at Montclair State College and the New Jersey School of Conservation in Stokes Forest. Two separate tracks comprise the recently revised program:

(1) the education sequence designed essentially for the preparation of environmental education specialists, and

(2) an environmental studies specialization providing emphasis in selected physical and/or behavioral sciences.

### Revised Requirements in Environmental Studies

#### Environmental Education Sequence:

I. Environmental Education	<i>semester hours</i>
a. Practicum in Environmental Education .....	3
b. Curriculum Development in Environmental Education .....	3
II. Specialization	
a. Introduction to Environmental Studies .....	6
b. Modern Biology or equivalent and Ecology .....	6
c. Research Experience .....	4-6
III. Environmental Education Electives	
(subject to approval of advisor) .....	8-12
	Required total 32

#### Environmental Studies Sequence:

I. Specialization	
a. Introduction to Environmental Studies .....	6
b. Field Experience .....	3-6
c. Scientific Research .....	4-6
d. Modern Biology or equivalent and Ecology .....	6
II. Environmental Studies Electives	
(subject to approval of advisor) .....	8-13
	Required total 32

### French and Spanish

Six semester hours of Basic Professional Education are not required in French and Spanish degree programs. Specialization in French or Spanish now requires 26 semester hours.

### Student Personnel Services

A. 0826-0582 Vocational Guidance and Occupational Information is re-titled 0826-0582 Career Development Theories/Procedures

B. 0826-0585 Group Process, Theory and Procedures has become a required course in guidance and counseling area.

C. Elective courses total nine semester hours rather than six semester hours

- D. Minimum degree requirements are changed from 33 semester hours to 39 semester hours.

### Administration and Supervision

- A. 0824-0503 Methods of Research replaces 821-0540 Social Forces in Education as required course in Phase I. 0821-0540 Social Forces in Education becomes a required course in Phase II.
- B. A student must apply for graduate study to determine his eligibility before completing the first six required semester hours of course work in Phase I.

### Geo-Science

Degree candidates must choose one course from each of the three groups listed below in the area of specialization:

- One of these: 1914-0446 Sedimentology  
1914-0506 Advanced Invertebrate Paleontology  
1914-0512 Paleoecology
- One of these: 1914-0502 Advanced Physical Geology  
1914-0504 Advanced Historical Geology  
1914-0516 Geophysics
- One of these: 1914-0520 Optical Mineralogy  
1914-0522 Petrography  
1914-0526 Advanced Mineralogy

### Human Organizational Development

A newly added concentration in Human Organizational Development has the following program requirements:

- A. Core — 9 required semester hours including: semester hours  
0842-0564 Dynamics of Group Process .....3  
0842-0565 Consultation in Organizational Development ..... 3
- B. Allied Electives in the Behavioral Sciences — select nine hours of Sociology, Anthropology or Psychology with your advisor's approval
- C. General Electives — select nine credits with advisor's approval
- D. Research —  
0824-0503 Methods of Research .....3  
0824-0654 Field Work and Practicum .....3
- E. Comprehensive Examination — required of all candidates for M.A. degree

### Teaching

0829-0400 Teacher, School and Society is no longer a required course.

## Revised Admission Procedure for Non-Degree Programs

Effective for the Fall 1973 semester, all applicants with a baccalaureate degree from an accredited institution must file an application with the Office of Graduate Admissions for admission into a non-degree program. This application must be filed prior to enrollment in graduate course. In addition to an application and supporting credentials, applicants to non-degree programs



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must submit a request for a program of study to meet the objectives stated in the application for admission. Enrollment must take place within one year of the date of acceptance into the non-degree program.

Below is a sample copy of the application form for admission into non-degree programs.

### SAMPLE ONLY. DO NOT SUBMIT.



#### MONTCLAIR STATE COLLEGE APPLICATION FOR ADMISSION AND MATRICULATION — MASTER OF ARTS DEGREE PROGRAMS — PART II

MAJOR IN WHICH YOU WISH TO MATRICULATE \_\_\_\_\_

Date you expect to enter \_\_\_\_\_  
Month \_\_\_\_\_ Year \_\_\_\_\_

Students filing this application are considered only for the Degree Program indicated above. Read carefully the Supplemental Sheet for application procedure and regulations. (Complete only one side of this application)

NAME IN FULL MR. \_\_\_\_\_ MS. \_\_\_\_\_  
LAST \_\_\_\_\_ FIRST \_\_\_\_\_ INITIAL \_\_\_\_\_ (MAIDEN NAME) \_\_\_\_\_  
PERMANENT ADDRESS \_\_\_\_\_  
STREET AND NO. \_\_\_\_\_ CITY \_\_\_\_\_ ZIP CODE \_\_\_\_\_ PHONE NO. \_\_\_\_\_  
PRESENT ADDRESS \_\_\_\_\_  
STREET AND NO. \_\_\_\_\_ CITY \_\_\_\_\_ ZIP CODE \_\_\_\_\_ PHONE NO. \_\_\_\_\_  
BUSINESS ADDRESS \_\_\_\_\_  
STREET AND NO. \_\_\_\_\_ CITY \_\_\_\_\_ ZIP CODE \_\_\_\_\_ PHONE NO. \_\_\_\_\_  
SOCIAL SECURITY NO. \_\_\_\_\_

DATE OF BIRTH \_\_\_\_\_ PLACE OF BIRTH (City and State) \_\_\_\_\_ If outside U.S.A.  
Year of Entry \_\_\_\_\_

Are you a citizen of the United States of America? ☐ Yes ☐ No Are you a resident of New Jersey? ☐ Yes ☐ No

If not, what type of visa do you hold? \_\_\_\_\_

☐ Veteran ☐ Discharge date \_\_\_\_\_

MILITARY SERVICE ☐ None ☐ On active duty Expected discharge date \_\_\_\_\_

**Note:** Veterans must submit photo-copy of separation papers with this application.

#### EDUCATIONAL PREPARATION

TYPE	NAME OF INSTITUTION	LOCATION	DATES	TYPE OF DEGREE	MAJOR	MINOR
HIGH SCHOOL						
COLLEGE-UNIVERSITY						

#### EMPLOYMENT RECORD

DATES	NAME AND LOCATION OF EMPLOYER	NATURE OF POSITION

#### TEACHER INFORMATION (IF APPLICABLE)

TOTAL YEARS OF TEACHING: ELEMENTARY SCHOOL \_\_\_\_\_ HIGH SCHOOL \_\_\_\_\_ COLLEGE \_\_\_\_\_ ADMINISTRATION \_\_\_\_\_

TYPE OF CERTIFICATE NOW HELD ☐ PERMANENT ☐ PROVISIONAL STATE \_\_\_\_\_

SUBJECT MATTER AREA OF CERTIFICATION \_\_\_\_\_

HAVE YOU ALREADY CARRIED WORK FOR WHICH YOU EXPECT TO RECEIVE GRADUATE CREDIT?

IF SO, STATE NUMBER OF CREDITS (INCLUDING THOSE AT MONTCLAIR STATE COLLEGE) INDICATE WHERE & WHEN TAKEN

1. \_\_\_\_\_ 2. \_\_\_\_\_

Have you ever filed a graduate application with this institution before? (When) \_\_\_\_\_

I understand that I am applying for Matriculation in a Graduate Degree Program and realize that I am responsible for knowing the regulations for graduate study outlined in the College Bulletin.

DATE \_\_\_\_\_ SIGNATURE \_\_\_\_\_

Montclair State College is an equal opportunity educational institution and considers applications from all qualified students regardless of their race, creed or national origin.

## MONTCLAIR STATE COLLEGE

## APPLICATION FOR ADMISSION — POST BACCALAUREATE STUDIES — PART II

(check one)

Application for: ☐ Non-Degree Program — Indicate subject area of interest \_\_\_\_\_  
☐ Certification Program — Indicate field of interest \_\_\_\_\_

Date you expect to enter \_\_\_\_\_  
 Month \_\_\_\_\_ Year \_\_\_\_\_

Persons filing this application are considered only for the Non-Degree Program indicated above. Read carefully the Supplemental Sheet Application Procedure and Regulations. (Complete only one side of this application)

IN FULL MR \_\_\_\_\_ MS \_\_\_\_\_ LAST \_\_\_\_\_ FIRST \_\_\_\_\_ INITIAL \_\_\_\_\_ (MAIDEN NAME) \_\_\_\_\_  
 PERMANENT ADDRESS \_\_\_\_\_ STREET AND NO \_\_\_\_\_ CITY \_\_\_\_\_ ZIP CODE \_\_\_\_\_ PHONE NO \_\_\_\_\_  
 CURRENT ADDRESS \_\_\_\_\_ STREET AND NO \_\_\_\_\_ CITY \_\_\_\_\_ ZIP CODE \_\_\_\_\_ PHONE NO \_\_\_\_\_  
 BUSINESS ADDRESS \_\_\_\_\_ STREET AND NO \_\_\_\_\_ CITY \_\_\_\_\_ ZIP CODE \_\_\_\_\_ PHONE NO \_\_\_\_\_  
 SOCIAL SECURITY NO. \_\_\_\_\_

DATE OF BIRTH \_\_\_\_\_ PLACE OF BIRTH (City and State) \_\_\_\_\_ If outside U.S.A. \_\_\_\_\_  
 Year of Entry \_\_\_\_\_

Are you a citizen of the United States of America? ☐ Yes ☐ No Are you a resident of New Jersey? ☐ Yes ☐ No

What type of visa do you hold? \_\_\_\_\_

☐ Veteran ☐ Discharge date \_\_\_\_\_

ARMY SERVICE ☐ None ☐ On active duty Expected discharge date \_\_\_\_\_

**Note:** Veterans must submit photo-copy of separation papers with this application.

## EDUCATIONAL PREPARATION

TYPE	NAME OF INSTITUTION	LOCATION	DATES	TYPE OF DEGREE	MAJOR	MINOR
SCHOOL						
UNIVERSITY						

## EMPLOYMENT RECORD

EMPLOYER	NAME AND LOCATION OF EMPLOYER	NATURE OF POSITION

## TEACHER INFORMATION (IF APPLICABLE)

TOTAL YEARS OF TEACHING: ELEMENTARY SCHOOL \_\_\_\_\_ HIGH SCHOOL \_\_\_\_\_ COLLEGE \_\_\_\_\_ ADMINISTRATION \_\_\_\_\_

TYPE OF CERTIFICATE NOW HELD ☐ PERMANENT ☐ PROVISIONAL STATE \_\_\_\_\_

SUBJECT MATTER AREA OF CERTIFICATION \_\_\_\_\_

Have you ever filed a Graduate Application with this Institution before? (When) \_\_\_\_\_

I declare that I am applying only for the Non-Degree Graduate Program indicated above and realize that I am responsible for knowing the regulations for Graduate Study outlined in the College Bulletin.

DATE \_\_\_\_\_

SIGNATURE \_\_\_\_\_

Montclair State College is an equal opportunity educational institution and considers applications from all qualified students regardless of their race, creed or national origin.

**SAMPLE ONLY. DO NOT SUBMIT.**

Academic Policies .....	22	Humanities, School of .....	19
Accreditation and memberships .....	9	Industrial Education and Technology .....	54
Administrative officers .....	5	Learning Disabilities .....	33
Administrative staff .....	6	Library, Sprague .....	12
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and the Deaf .....	33	National Student Defense Loan .....	13
Biology .....	28	New Jersey State Student Loan .....	13
Business and Distributive Education .....	29	Officers of the College .....	5
Cancellation of courses .....	24	Part-time employment .....	13
Changes of courses .....	24	Physical Education .....	6
Changes of major .....	24	Professional Arts and Sciences, School of .....	21
Chemistry .....	31	Program for Advanced Study in Administration and Supervision .....	4
Commencement .....	26	Psychology .....	6
Communication Sciences .....		Psychology, Communication Disorders, Reading .....	6
and Disorders .....	32	Public Media Arts .....	7
Comprehensive examination .....	25	Reading .....	6
Course load .....	22	Refund of fees .....	1
Educational and Community Services, School of .....	18	Registration .....	2
Educational Leadership .....	39	Restrictions for graduate credits .....	2
Educational Psychology .....	63	Schools of the College .....	1
English and Comparative literature .....	44	School Psychologist certification .....	6
Environmental Education .....	42	Senior-graduate students .....	1
Facilities and Educational Services .....	12	Social and Behavioral Sciences, School of .....	2
Faculty .....	8	Social Sciences .....	7
Fees .....	15	Sociology .....	7
Financial assistance .....	13	Spanish .....	7
Fine and Performing Arts, School of .....	19	Special Education, Pupil Services .....	8
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## **THE SCHOOLS OF MONTCLAIR STATE COLLEGE**

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**School of Educational and Community Services**

**School of Fine and Performing Arts**

**School of Humanities**

**School of Mathematics and Science**

**School of Professional Arts and Sciences**

**School of Social and Behavioral Sciences**



**MONTCLAIR STATE COLLEGE  
DIVISION OF GRADUATE STUDIES  
UPPER MONTCLAIR, N.J. 07043**



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Graduate courses 1974-76

Montclair State College

Upper Montclair, New Jersey

**Montclair State College Bulletin**

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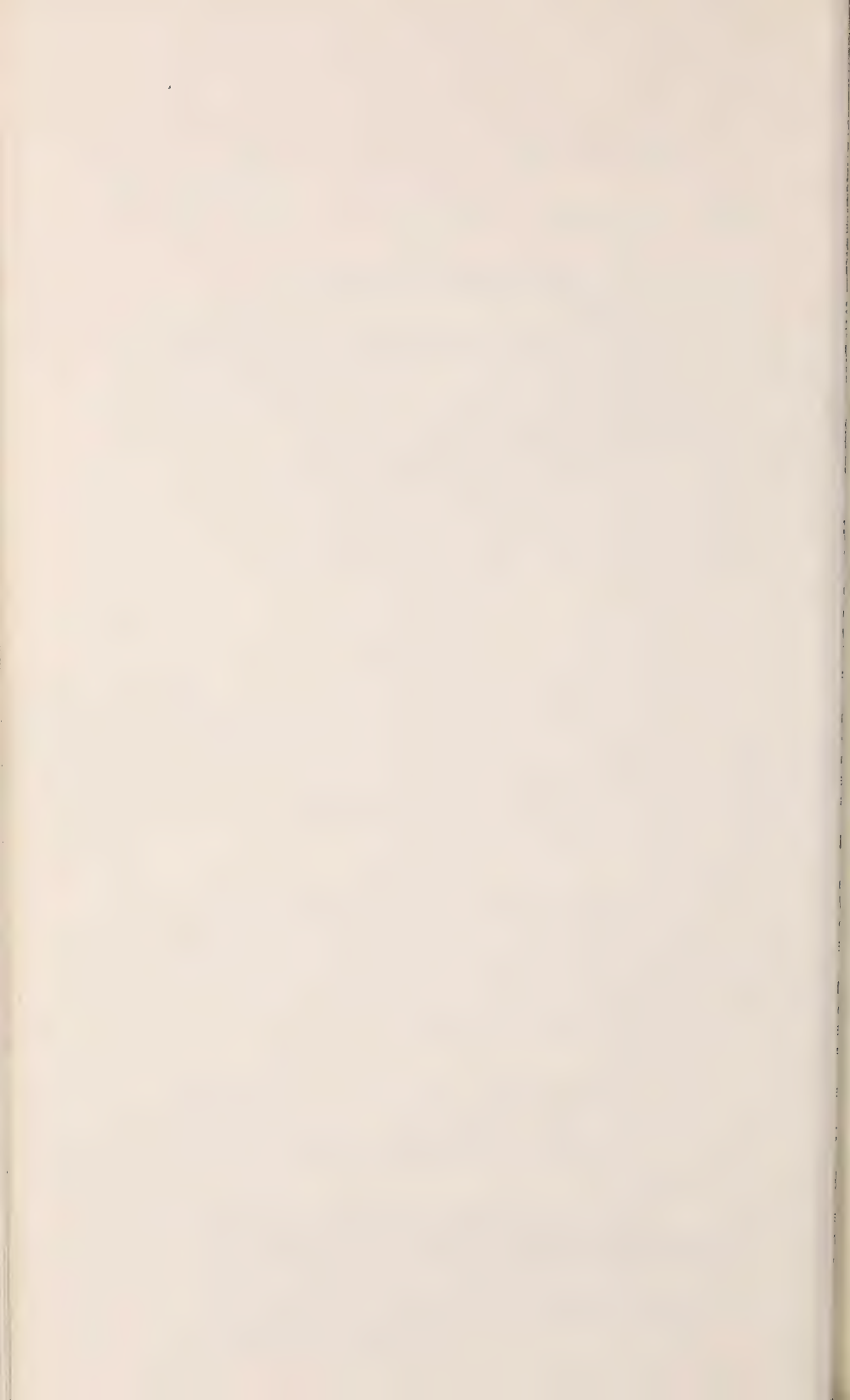
Upper Montclair, New Jersey



This volume contains graduate course descriptions for 1974-76. Related general information and the graduate program are to be found in the companion publication, Graduate Program 1974-76, Volume 67, Number 1, January, 1974.

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## Anthropology

(For program information, see page 58 of companion volume)

### **2202-531 Human Variation**

The study of various races from the perspective of physical anthropology. Theories and explanations of human variations, racial types in the modern world, as well as misconceptions concerning race and intelligence and race and culture.

3 semester hours

### **2202-532 Anthropology of Cities**

A cross-cultural investigation of urbanism and urbanization. Utilizing anthropological monographs, the comparative method reveals recurrent patterns of adaptation to urban environments. An urban, ethnographic field work research project is required.

3 semester hours

### **2202-533 Spanish Cultural Influences in the U.S.**

The cultural heritage of Spanish-speaking America. Utilizing anthropological concepts, problems of adjustment and educational implications are emphasized.

3 semester hours

### **2202-534 Anthropology and Education**

Advanced seminar on the relationship of culture to learning, and of anthropology to educational issues and problems. Group work and guided individual research on the multi-cultural use of anthropological concepts and methodologies in the study of socialization and education.

Prerequisite: 6 semester hours in graduate anthropology courses, or permission of the instructor.

3 semester hours

### **2205-535 Ethnology**

A graduate introduction to the "science of peoples, their cultures and life histories as groups." Ethnographic and ethnological methodology and theory. Primarily for graduate students with limited or no previous course work in cultural anthropology.

3 semester hours

### **2202-536 Cultural Diversity**

Descriptive, historical and theoretical anthropological works provide the basis for studying likenesses and differences among folk and urban cultures, their historical development, and interrelationships between differing aspects of culture.

Prerequisite: 2202-535 or equivalent.

3 semester hours

### **2202-537 Cultural Stability and Change**

Emphasis on the dynamics of cultural preservation, transmission, and change. Factors and conditions which retard and/or stimulate culture change in transcultural perspective; the psycho-cultural consequences of rapid change.

Prerequisite: 2202-535 or equivalent.

3 semester hours

### **2202-538 Ethnopsychology**

Team-taught interdisciplinary course on convergencies of theoretical and methodological concepts from anthropology and psychology. Personality in culture; cultural influences on perception, cognition and learning; personality under stress; cultural psychiatry; and creativity in culture. Interdisciplinary field work.

Prerequisite: Previous course work in anthropology and psychology, or permission of the instructors.

3 semester hours



**2202-539 Prehistoric North America**

General background in native American archaeology, and theory and method in this subdiscipline. Selected culture areas and problems relating to time depth, cultural interaction, and the nature of archaeological evidence north of Mexico.

3 semester hours

**2202-540 Social Anthropology and History**

The relationship of social anthropology to history. The study of history as a cultural system; sources and methods utilized in reconstructing the histories of preliterate societies and the "inarticulate" sectors in complex societies.

3 semester hours

**2202-541 Cognitive Anthropology**

How different peoples organize and use their cultures; data from formal ethnography, semantic analysis, ethnoscience and componential analysis for purposes of studying culture and building culture theories. (Recommended for M.A. candidates in the behavioral and social sciences.)

Prerequisite: Previous course work in ethnology, ethno-psychology or linguistics.

3 semester hours

**2202-601 Independent Anthropological Research**

Under faculty guidance, the student works independently throughout the academic year on a delimited problem in anthropology. Course includes presentation of proposal, execution and write-up of research, and oral defense of findings.

Prerequisite: Permission of the graduate advisor and instructor.

3 semester hours

## **Biology**

(For program information, see page 25 of companion volume)

**0401-510 The Teaching of Biology in Secondary Schools**

Seminar and research course designed for study of methods and practices being used in teaching of secondary school biology.

Prerequisite: 16 semester hours in biology

3 semester hours (3 hours lecture)

**0401-511 Histology and Histological Techniques**

Structural characteristics of cells and their specialization according to function; the organization of cells into the tissues and organs of the intact form; basic procedures for the preparation of tissue sections and permanent mounts.

Prerequisite: 8 semester hours in biology

4 semester hours (2 hours lecture, 4 hours laboratory)

**0401-512 Advanced Genetics**

Seminar course. Genetics of microorganisms, molecular genetics, developmental genetics, non-nuclear genetic phenomena.

Prerequisites: 1 semester Biochemistry (1401-412); Genetics

3 semester hours (lecture)

**0401-513 Instrumentation and Techniques for Biological Science**

Modern analytical and research techniques in biology, including manometry, spectrophotometry, electrophoresis, chromatography, microbial batch growth and assay techniques, immunotechniques and evaluation of experimental design and data.

Prerequisites: General chemistry, general physics, organic chemistry and an adequate background in biology or permission of the staff. Analytical chemistry or biochemistry desirable.

4 semester hours (2 hours lecture, 4 hours laboratory)

**0401-514 Biological Problems of Society**

Seminar. Students will investigate and discuss environmental problems reported in recent scientific publications.

Prerequisite: Matriculation for M.A. degree in biology or permission of instructor. Comprehensive examination for the Master's degree in biology will be based on this course.

2 semester hours

**0401-515 Radiation Biology**

The biologic effects of ionizing radiations.

Prerequisite: Organic Chemistry.

4 semester hours (2 hours lecture, 4 hours laboratory)

**0401-516 Biogeography**

Distribution of plants and animals of the world on continents and continental and oceanic islands and in various climatic zones.

Prerequisites: 8 semester hours botany; 8 semester hours zoology, including vertebrate zoology; 3 semester hours physical geography.

3 semester hours (lecture)

**0401-520 Plant Physiology**

Investigation of physiology of plants. Plant growth, development and reproduction as well as the new advances in plant physiology. Water relations of plants, mineral nutrition, physiological significance of soil and soil moisture, photosynthesis, respiration, plant biosynthesis and dynamics of growth.

Prerequisites: Organic chemistry, general botany or permission of the instructor.

4 semester hours (2 hours lecture, 4 hours laboratory)

**0401-521 Field Studies of Flowering Plants**

The taxonomy, evolutionary trends and ecological adaptations of the Gymnosperms and Angiosperms. A variety of habitats will be visited and analyzed.

Prerequisite: 1 year of botany and field experience in ecology.

4 semester hours (2 hours lecture, 4 hours laboratory)

**0401-522 Plant Pathology**

Causes, symptoms, impact on man's food supply and control of plant diseases.

Prerequisites: Microbiology, 1 year Botany or approval of instructor.

3 semester hours (2 hours lecture, 2 hours laboratory)

**0401-523 Mycology**

Identification, classification of fungi and their place in the ecosystem.

Prerequisite: Microbiology, 1 year of Botany or approval of instructor.

3 semester hours (2 hours lecture, 2 hours laboratory)

**0401-531 Parasitology**

General biology, ecology and classification of medically important protozoans and helminths.

Prerequisite: General Zoology

3 semester hours (2 hours lecture, 2 hours laboratory)

**0401-540 Comparative Human Anatomy**

Man's physical, physiological and behavioral aspects in the framework and by the methodological approach of comparative anatomy.

Prerequisite: A year course in general zoology and a course in human anatomy and physiology.

4 semester hours (2 hours lecture, 4 hours laboratory)

**0401-541-542 Experimental Embryology and Cellular Differentiation I, II**

Seminar on experimental studies that have led to present knowledge of developmental processes. Discussion of studies by classical embryologists with emphasis on rele-

vance of their ideas to modern concepts of development. Special topics of embryology; regulative vs. mosaic development, induction, morphogenetic movement, fields and gradients. Modern techniques and studies: nuclear transplantation, chromosome differentiation, in vitro studies of cell disaggregation and reaggregation.

Prerequisite: Basic Embryology; One course in General Biology or Zoology.

2 semester hours (2 hours lecture)

#### **0401-550 Topics in Microbiology**

Selected topics in microbiology of special interest from both theoretical and technological point of view, such as, microbial metabolism, microbial cell-free systems, genetics, antibiotic action, bacteriophage, virus and cancer, etc.

Required: General Microbiology, Organic Chemistry, Cell Biology. Also desirable: Intermediary Metabolism and Advanced Microbiology.

4 semester hours (4 hours lecture)

#### **0401-551 Intermediary Metabolism I**

Discussion of interrelationships of catabolic and anabolic paths.

Prerequisites: One year of Organic Chemistry and Biology; Biochemistry or Cell Physiology or equivalent.

2 semester hours (2 hours lecture)

#### **0401-552 Intermediary Metabolism II**

Biological cycles, unity and diversity in metabolic paths, metabolic evolution, metabolic control mechanisms and other special topics.

Prerequisite: Intermediary Metabolism I or equivalent.

2 semester hours (2 hours lecture)

#### **0401-570 Ecology**

Basic ecological principles and concepts. Habitat approach to field exercises in fresh water and terrestrial ecology. Intra and interspecific relationships with all living members of the ecosystem; problems in plant and animal ecology and appropriate research in the field and library.

Prerequisite: General Botany, General Zoology, Plant Taxonomy or equivalent, some physical science.

3 semester hours (2 hours lecture, 2 hours laboratory)

#### **0401-571 Physiological Plant Ecology**

Field and laboratory studies including methods of vegetation analysis with emphasis on autoecological techniques.

Prerequisite: Ecology, New Jersey Flora or equivalent, or special permission of the instructor.

4 semester hours (2 hours lecture, 4 hours laboratory)

#### **0401-572 Ecology of the Estuary**

Important biotic, chemical and physical parameters of New Jersey's estuaries. Evolution and successional trends of estuarine communities. Ecology of individual communities studied by field trips to Delaware Bay shore and to some Atlantic coast bays, marshes and offshore barrier islands. Also offered at the New Jersey Marine Sciences Consortium.

Prerequisites: Invertebrate Zoology, Plant Kingdom, one year of Chemistry, or special permission of the instructor.

4 semester hours (2 hours lecture, 3 hours laboratory)

The following Senior Graduate courses in Biology may be elected with the permission of the graduate advisor. Descriptions of the following courses will be found in the current undergraduate bulletin.

	semester hour
0401-410 Biological Sciences Demonstrations .....	
0401-412 Genetics .....	
0401-413 Field Studies in Sciences: Biology .....	
0401-414 Problems in Field Studies in Biology .....	



0401-415-416	Modern Biology .....	each 4
0401-417	Research Seminar in Biological Literature .....	2
0401-418	Biology Independent Study .....	Credit by Arrangement
0401-419	History and Philosophy of the Life Sciences .....	2
0401-420	Economic Botany .....	3
0401-424	Morphology of Flowering Plants .....	4
0401-425	Elementary Plant Physiology .....	4
0401-426	New Jersey Flora .....	4
0401-430	Field Ornithology .....	2
0401-431	Entomology .....	3
0401-432	Medical Entomology .....	2
0401-440	Mammalian Anatomy and Histology .....	4
0401-441	Comparative Anatomy of the Vertebrates .....	4
0401-442	Human Physiology .....	4
0401-443	Comparative Vertebrate Embryology .....	4
0401-444	Cell Physiology .....	5
0401-445	Immunology .....	3
0401-451	Advanced Bacteriology .....	4
0401-460	Biological Oceanography .....	3
0401-461	Limnology .....	3
0401-462	Marine Biology .....	4
0401-463	Marine Invertebrate Zoology .....	4
0401-464	Marine Botany .....	4
0401-465	Biology of Marine Plankton .....	4
0401-467	Marine Ichthyology .....	4
0499-401	Field Methods in Oceanography & Marine Biology .....	1
0499-402	Plankton Sampling and Analysis .....	1
0499-403	Primary Production in the Marine Environment: Techniques and Measurement .....	1
0499-404	Plant and Animal Histological Techniques .....	3

## Business and Distributive Education

### Business Education

(For program information, see page 26 of companion volume)

#### 0838-501 Principles and Problems of Business Education

Survey of principles and practices. History of business education, objectives, relationship of business education to general education, trends and problems in the field. 1 semester hours

#### 0838-503 Introduction to Research in Business Education

Evaluation of current literature in business and distributive education, nature and types of research, methods and techniques of research and tools for interpreting statistical data. Student develops outline of research study to be completed in 0838-603, Seminar in Business Education.

Prerequisite: Principles and Problems of Business Education (0838-501) and an Improvement of Instruction course.

1 semester hours

#### 0838-504 Evaluation and Measurement in Business Education

Constructing, administering, interpreting and evaluating all types of testing and evaluation materials in business subjects.

1 semester hours

#### 0838-505 Administration and Supervision of Business Education

Study of problems of organizing, directing and supervising business education programs at the secondary school and collegiate levels.

1 semester hours



**0838-506 Business Education Curriculum**

Study of business education for various levels and types of schools. Evaluation of specific programs; development of improved curricula.

3 semester hours

**0838-511 Improvement of Instruction in Bookkeeping, Accounting and Business Arithmetic**

Study of objectives, content, methods, teaching aids and evaluation procedures.

Prerequisites: Undergraduate courses in accounting and methods, teaching or experience.

3 semester hours

**0838-512 Improvement of Instruction in General Business Subjects**

Study of objectives, content, methods, teaching aids and evaluation procedures for courses such as general business, economic geography, business law and consumer education.

Prerequisites: Undergraduate courses in general business and methods or teaching experience.

3 semester hours

**0838-513 Improvement of Instruction in Stenography and Secretarial Practice**

Refinement of teaching and personal skills, introduction to the latest instructional equipment and method through demonstration and reading.

Prerequisites: Undergraduate courses in stenography and methods, or teaching experience.

3 semester hours

**0838-514 Improvement of Instruction in Typewriting and Clerical Practice**

Refinement of teaching and personal skills in typewriting and business machine operation. Latest teaching techniques examined, demonstrated and evaluated.

Prerequisites: Undergraduate courses in typewriting and methods, or teaching experience.

3 semester hours

**0838-527 Workshop in Clerical and Secretarial Practice, Advanced Stenography, Advanced Typewriting, Office Machines**

Workshops, which may run simultaneously, in study, planning and development of teaching materials and projects fitted to a particular teaching situation. Individual and small-group instruction with occasional seminar meetings of the entire group.

Prerequisites: Teaching experience in the field.

3 semester hours

**0838-528 Field Studies in Business Education**

Opportunity for the classroom teacher to evaluate some of the practices of business offices, industries and retailing organizations in the metropolitan area. Experience in planning, conducting and follow-up of field trips.

3 semester hours

**0838-529 Audiovisual Aids in Business Education**

Develops knowledge and skill using many audio and visual aids available in teaching business subjects. Developing and constructing teacher-made audiovisual aids.

3 semester hours

**0838-530 Business Education in Post-High School Institutions**

Purposes, curricula, method and problems of teaching business education subjects in post-high school institutions, including technical institutions, two-year and four-year colleges.

3 semester hours

**0838-570 Business Education for Teachers of the Disadvantaged**

Prepares teachers of business subjects to meet specific needs of disadvantaged students. Occupational opportunities open to the disadvantaged, and the secondary

school business program which will prepare them for these occupations. Teachers will build curricula and develop special instructional materials and methods needed for disadvantaged students in the inner-city schools.

3 semester hours

### **0838-603 Seminar in Business Education**

Matriculated graduate student in business or distributive education completes research project in business or distributive education. Course also prepares student for Master of Arts comprehensive examinations.

Prerequisite: 0838-503.

3 semester hours

The following Senior-Graduate courses in Business Education may be elected with the permission of the graduate advisor. Descriptions may be found in the current undergraduate bulletin.

	semester hours
0838-434 Introduction to Data Processing .....	3
0838-435 Punch Card Data Processing .....	3
0838-480 Touch Shorthand in Recording Communication .....	2

### **Distributive Education**

(For program information, see page 26 of companion volume)

### **0840-550 Improvement of Instruction in Retailing Subjects**

Objectives, content, methods, teaching aids and evaluation procedures for courses such as salesmanship, retail store operation, advertising, merchandising and marketing. Prerequisite: Undergraduate methods in distributive education, or teaching experience in distributive education.

3 semester hours

### **0840-552 Improvement of Instruction in Wholesaling and Services**

Objectives, content, methods, teaching aids and evaluation procedures for courses such as wholesaling, limited and service types; service, gas stations, cleaning establishments, rent-all and other service organizations.

Prerequisite: Undergraduate methods course in distributive education, or teaching experience.

3 semester hours

### **0840-553 Principles and Problems of Adult Extension Distributive Education**

Organization, promotion, publicity and methods for adult extension classes—using community resources. Includes in-service, preservice and advanced courses for adults in urban and suburban situations.

3 semester hours

### **0840-554 Workshop in Problems of Distributive Education**

Intensive analysis of problem-solving in distributive education programs. Discussion on experience in teaching and administering distributive education programs. Committee work-seminar method is used.

3 semester hours

### **0840-555 Field Studies in Distributive Education**

Opportunity for the classroom teacher to visit retail organizations, wholesaling houses, distribution centers and service establishments in the metropolitan area and evaluate their practices. Experience in planning, conducting and follow-up of field trip.

3 semester hours

### **0840-556 The Project Method in Distributive Education**

Development, use and coordination of individual, small-group and class vocational projects providing simulated occupation experience for the high school "non-co-operative" distributive education student.

3 semester hours

**0840-557 Audiovisual Aids in Distributive Education**

Provides the classroom teacher an opportunity to view and use various audiovisual multi-media material and to evaluate, plan and produce own multi-media projects.  
3 semester hours

**0840-558 Distributive Education in the Two-Year College**

Objectives, curriculum and administration of the distributive education programs in two-year community colleges.  
3 semester hours

**0840-559 Distributive Education for the Disadvantaged Student**

Prepares teachers of distributive education to meet specific needs of disadvantaged students. Special curriculum development as it relates to the co-operative work experience program. Coordination problems in the inner-city area.  
3 semester hours

The following Senior-Graduate courses in Distributive Education may be elected with the permission of the graduate advisor. Descriptions of courses may be found in the undergraduate bulletin.

	semester hours
0840-452 Principles of Vocational Education .....	2
0840-455 Curriculum Development in Distributive Education .....	2
0840-454 Principles and Methods of Teaching Distributive Education and Coordination .....	3
0840-456 Organization and Administration of Distributive Education .....	2
0840-457 Organization and Administrative of Co-curricular Activities in Distributive Education .....	2

## Chemistry

(For program information, see page 27 of companion volume)

**1905-521 Advanced Theoretical Inorganic Chemistry**

Current theories of inorganic structure, reactions and properties.

Prerequisites: (1905-341) Physical Chemistry II, (1905-423) Principles of Theoretical Inorganic Chemistry or equivalents.

3 semester hours (lecture)

**1905-531 Advanced Theoretical Organic Chemistry**

Modern theories of organic chemistry with emphasis on electronic theory and reaction mechanisms.

Prerequisite: (1905-430) Advanced Organic Chemistry or equivalent.

3 semester hours (lecture)

**1905-540 Chemical Thermodynamics**

In-depth study of classical thermodynamics. Development of thermodynamic functions describing chemical systems in equilibrium with emphasis on systems of variable composition.

Prerequisites: (1905-341) Physical Chemistry II, (1701-315) Applied Differential Equations or equivalents.

3 semester hours (lecture)

**1905-542 Theoretical Physical Chemistry**

Theoretical development of quantum mechanics and statistical mechanics as applied to chemistry. Application of theoretical procedures to atomic and molecular structure and bonding.

Prerequisites: (1905-341) Physical Chemistry II, (1701-315) Applied Differential Equations or equivalents.

3 semester hours (lecture)



**1905-544 Electrochemistry**

Principles and application of electrochemistry as related to research and production problems.

Prerequisites: (1905-341) Physical Chemistry II, (1970-343) Experimental Physical Chemistry II, (1701-315) Applied Differential Equations or equivalents.

3 semester hours (lecture)

**1905-546 Chemical Spectroscopy**

Introduction to the theory and experimental techniques of molecular spectroscopy.

Prerequisite: (1905-341) Physical Chemistry II or equivalent.

3 semester hours (lecture)

**1905-548 Chemical Kinetics**

Kinetics in its role of elucidating reaction mechanisms. Discussion of recent problems from the chemical literature including fast reaction and enzyme kinetics.

Prerequisite: (1905-341) Physical Chemistry II.

3 semester hours (lecture)

**1905-570 Advanced Biochemistry**

A detailed treatment of selected topics in biochemistry. Discussions of carbohydrate, lipid and amino acid metabolism, protein synthesis and nucleic acid chemistry.

Prerequisite: (1905-470) Biochemistry or equivalent.

3 semester hours (lecture)

**1905-590 Selected Topics in Advanced Chemistry**

An in-depth study of selected areas in either analytical, inorganic, organic or physical chemistry with special emphasis upon recent developments in the field.

Prerequisite: permission of instructor.

3 semester hours (lecture) each time elected

**1905-600 Thesis**

Directed individual experimental investigation. Presentation and defense of thesis before the Chemistry Faculty.

Prerequisite: Approval of the department chairman, the graduate advisor and the faculty thesis advisor.

4 semester hours

The following Senior-Graduate courses in chemistry may be elected with the permission of the graduate advisor. Course descriptions will be found in the current undergraduate bulletin.

	Semester hours
1905-410 Advanced Quantitative Analysis .....	4
1905-411 Water Analysis and Purification .....	3
1905-421 Principles of Descriptive Inorganic Chemistry .....	2
1905-423 Principles of Theoretical Inorganic Chemistry .....	3
1905-430 Advanced Organic Chemistry .....	3
1905-440 Atomic Structure and Bonding .....	3
1905-460 Industrial Chemistry .....	4
1905-465 Radiochemistry .....	3
1905-470 Biochemistry .....	3

**Communication Sciences and Disorders**

(For program information, see page 28 of companion volume)

**1220-513 Parent Counseling in Communication Disorders**

Parent-child-clinician triad analyzed with emphasis on parent counseling regarding some management of the child, interpretation of diagnostic and therapy findings and referral.

Prerequisite: 1220-411

3 semester hours



**1220-522 Advanced Phonetics**

Skill in use of phonetics in recognizing and distinguishing acceptable English speech sounds, deviant speech sounds, regional variations in standards of American English and sounds in foreign languages. Stress, phrasing and intonation patterns used in speaking English, with some analysis of these elements in other languages.

Prerequisite: 1220-104 or equivalent.

3 semester hours

**1220-533 Supervision of Speech and Hearing Programs**

Develops skill in supervision of beginning clinicians by experienced therapists; criteria for evaluation, writing critiques and understanding interpersonal relationships that enhance teaching through criticism.

3 semester hours

**1220-534 Advanced Anatomy and Physiology of the Vocal and Auditory Mechanisms**

Basic anatomy of mechanisms of speech reception and expression; the integrated functioning of the central nervous system, the autonomic nervous system and the endocrine system; abnormalities of structure and function of the speech and hearing processes; medical and surgical aspects of rehabilitation and hygiene of the ear, nose and throat. Demonstrations and supervised laboratory dissection.

Prerequisite: 1220-208 or equivalent.

3 semester hours

**1220-572 Speech Science and Instrumentation**

Analysis of speech production and reception through use of equipment designed to measure selected features of the communication process.

3 semester hours

**1220-586 Education of the Handicapped**

Role of the teacher on the professional team, state and federal legislation relating to handicapped children and adults and community resources for the special child.

3 semester hours

**1220-591 Organization and Administration of Communication Disorders Programs**

Problems of organizing and administering a comprehensive speech program in a school system: curriculum development, teacher-administration relationships, class scheduling, reports and records, in-service training and integration of the speech program with the total school curriculum.

3 semester hours

**1220-594 Independent Study**

Students select an area of communication sciences and disorders and, with advisement, study the literature in the field, observe related programs at special schools and centers and write reports on findings. Regular conferences with instructor for guidance and evaluation.

1-3 semester hours

**1220-620 Orientation and Observation in Special Education**

Community resources, professional roles and responsibilities and team operations. On-site visits to special classes and rehabilitation centers or special class guest lecturers.

3 semester hours

The following Senior-Graduate courses (1220-439A, B, C, D, E, G and H) may be elected with permission of the graduate advisor. They are designed for students who wish to fulfill certification requirements in speech correction or prerequisites for matriculation for the Master's degree. Specialized areas in the speech sciences are offered as workshops with attendance required during all or part of the six-week summer session, depending upon the number of units elected. 1220-439 A, B, G must be taken in sequence. A post summer-session semester, when offered, makes it possible to com

plete almost all the requirements for speech correction in one summer. Prerequisite or corequisite: Psychology and Education of the Handicapped (2001-564 or 565 or 1220-586)

1220-439	Phonetics .....	3
1220-439	Anatomy and Physiology of the Speech Mechanisms .....	3
1220-439	Speech Pathology .....	3
1220-439	Practicum in Speech Correction (equiv. of 461) .....	1
1220-439	Advanced Practicum in Speech Correction .....	1
1220-439	Voice and Articulation Disorders .....	3
1220-439	Clinical Procedures in Audiology .....	3

### **Audiology and Teaching Hard of Hearing and Deaf**

#### **1220-531 Advanced Audiology**

Increase skill in administering tests for pure-tone and speech reception thresholds; evaluation and interpretation of test results and analysis of client histories. Hearing aid evaluation, measurement of recruitment and tests for psychogenic deafness and malingerling; pre- and post-surgical audiometry and special problems of differential diagnosis in testing children.

Prerequisite: 1220-468

3 semester hours

#### **1220-536 Seminar in Audiology**

Significant issues in audiology and opportunities for observation and participation in advanced clinical procedures. Minimum of 150 clock hours of practicum experience on and off campus required.

3 semester hours

#### **1220-537 Hearing Aids and Hearing Aid Selection**

Principles and procedures involved in fitting hearing aids and differential selection based on audiometric findings. Characteristics of hearing aids and ear molds.

1 semester hours

#### **1220-538 Differential Audiometry**

Sophisticated and advanced audiometric tests used in differential diagnosis of hearing problems. Demonstration and analysis of functional hearing loss tests, evoked response audiometry, difference limen tests, G.S.R. audiometry and tests for central auditory problems.

1 semester hours

#### **1220-540 Practicum in Audiology**

Directed and supervised experience in advanced audiometric tests for differential diagnosis of hearing impairment.

Prerequisite: 1220-538

1 semester hours

#### **1220-541 Advanced Practicum in Audiology**

Directed and supervised experience in advanced audiometric tests for differential diagnosis of hearing impairment.

Prerequisite: 1220-538

1 semester hours

#### **1220-542 Identification Audiometry and Conservation Programs**

Approaches to identification of hearing problems in school children and hearing conservation programs. Industrial audiology: noise pollution, damage risk criteria and employment-connected hearing disability.

1 semester hours

#### **1220-561 Clinical Practicum in Teaching the Deaf**

Observing and teaching in a school or program for the deaf. Required of students who have little or no previous experience. Total of 125 hours must be completed with no more than 35 hours credited for previous experience elsewhere.

1 semester hours

**1220-570 Teaching Total Communication to the Hard of Hearing and Deaf**

Methods and materials of teaching speech to children with severe hearing impairment. Techniques involving auditory training with amplification and group hearing aids included.

2 semester hours

**1220-571 Methods of Teaching the Deaf and Hearing Impaired**

Pre-school to the adult level, with emphasis on language development and compensatory learning.

3 semester hours

**1220-574 Psychology of Deafness**

Effects of deafness and hearing loss on the intellectual, social and emotional development of the child; congenital and acquired hearing loss and the behavior of hearing members of the client's world.

3 semester hours

**1220-575 Language Development for the Deaf**

Communication problems of the deaf with emphasis on application of psycholinguistics theory to development of language skills.

3 semester hours

**1220-576 Aural Rehabilitation for Adults**

Advanced study of techniques for developing lipreading and auditory training. Social and vocational aspects of communication emphasized.

3 semester hours

**1220-578 Seminar in Research in Deafness and Hearing Impairment**

Significant problems in the field of deafness and hearing impairment; evaluation of published research projects; critical analysis and experimental design.

2 semester hours

**1220-593 Seminar in Research in Audiology**

Significant problems in the field of audiology; evaluation of published research projects; critical analysis and experimental design.

**Language Development and Disorders**

**1220-465 Seminar in Black Language**

Survey of Black language patterns and their relation to standard English in the Black speech community. Application to the goals of the speech therapist in predominantly Black schools. (Senior-Graduate).

Prerequisite: course in phonetics and psycholinguistics.

3 semester hours

**1220-500 Speech and Language Acquisition**

The nature of language and language development in young children. Acquisition of phonological, semantic and syntactic systems studied in framework of biological, cognitive and linguistic theory.

3 semester hours

**1220-501 Language Development in the Primary Grades**

Language activities in the elementary school curriculum; techniques for enhancing oral language proficiency in the school age child.

3 semester hours

**1220-502 Psychology of Oral Communication**

Speech and language in the individual; problems of communication that lead to confusion of meaning and misunderstanding. Psychology of persons who are handicapped in speech, hearing and/or reading, including those with hysterical or psychogenic impairments. Contributions of learning theory and of psycholinguistics.

3 semester hours



**1220-580 Diagnosis and Correction of Children with Learning Disabilities I**

Conceptual model of learning disabilities; parameters of the diagnostic evaluation of the child who is failing in school. Tests demonstrated; students trained in analyzing results and prescribing individualized educational plans.

**1220-581 Diagnosis and Correction of Children with Learning Disabilities II**

Continuation of 1220-580. Developing instruction plans from diagnostic data. Parameters of managing learning; disabled children within and outside the regular classroom; consultation techniques for use with classroom teachers.

Prerequisite: 1220-580

3 semester hours

**1220-582 Remediation of Basic Skills (Methods and Materials)**

Techniques for remediation of reading, writing, spelling, arithmetic, speaking and listening problems with children who are performing poorly in school.

3 semester hours

**1220-583 Language Disorders of Children**

Psycholinguistic components of language, factors involved in language development and language disorders associated with developmental lag, childhood aphasia, deafness, retardation and emotional problems.

3 semester hours

**1220-587 Educational Technology in Teaching Children with Learning Disabilities**

Applications and principles of programmed instruction and technological equipment for teaching atypical children. Emphasis on individualized instruction, feedback theory and behavior modification.

3 semester hours

**1220-588 Teaching Specialized and Vocational Skills to Children with Learning Disabilities**

Pre-vocational study of the atypical child's interests and abilities, channeled into productive areas related to industrial arts, arts and crafts, home economics and business skills.

3 semester hours

**1220-589 Seminar in Research in Learning Disabilities**

Significant problems in field of learning disabilities investigated, and published research projects evaluated. Critical analysis and experimental design.

3 semester hours

**Speech Pathology**

**1220-511 Advanced Speech Pathology**

Modern techniques of speech rehabilitation and review of research findings in voice, articulation, rhythm and symbolization disorders. Speech rehabilitation integrated with related health services and educational services in schools and special centers.

Prerequisite: 1220-410 or equivalent.

3 semester hours

**1220-512 Advanced Diagnosis of Communication Disorders**

Continuation of diagnosis procedure including tests for multiple-handicapped children with communication disorders. Opportunities for interviewing parents, testing and report writing.

3 semester hours

**1220-514 Communication Disorders of the Aged**

Communication disorders associated with pathologies that tend to occur in later life, i.e., aphasia, multiple sclerosis, Parkinsonism and cerebral arteriosclerosis.

Prerequisite: 1220-410

3 semester hours



**1220-515 Seminars in Voice Disorders**

Selected disorders of voice production: etiology, pathology and therapy related to vocal nodules, contact ulcers, paralysis of the vocal cords, and other organic voice problems. Speech rehabilitation techniques for the laryngectomized and for persons with cleft palate conditions.

3 semester hours

**1220-532 Practicum in Speech Rehabilitation**

Practical application of diagnostic and rehabilitative techniques with children and adults who have major speech and language problems. Qualified students participate in specialized laboratory experiences: planning and supervising speech therapy sessions, providing rehabilitative services, interviewing applicants and administering audiometric tests.

Prerequisite: 60 clinical hours in speech practicum.

3 semester hours

**1220-535 Advanced Seminar in Communication Disorders**

Diagnostic, therapeutic and evaluative techniques employed in working with children and adults who have speech disorders of organic etiology. Minimum of 150 clock hours of supervised teaching must be accumulated.

Prerequisite: 1220-410 (These courses taken concurrently may constitute full-time summer session requirement for part-time graduate students.)

6 semester hours

**1220-584 Cleft Palate and Oral Deformities**

Etiology and characteristics of cleft palate and oral deformities of malfunctions in children; speech therapy and surgical repair procedures. Unit on tongue thrust therapy included.

3 semester hours

**1220-585 Stuttering**

Principles and methods of speech therapy with children who stutter. Methods of evaluation, specific techniques of speech therapy, and principles coordinating speech therapy with home and school life. Demonstrations with children who stutter serve as the basis for study and discussion.

3 semester hours

**1220-592 Seminar in Research in Speech Pathology**

Significant problems in the field investigated and published research projects evaluated. Critical analysis and experimental design.

3 semester hours

## **Economics**

(For program information, see page 59 of companion volume)

**2204-501 Economic Analysis**

Resource allocation and income distribution implications of households and firms under varying degrees of competition; various factors that determine the level of employment, income, and prices for the economy; the role of monetary and fiscal policies.

3 semester hours

**2204-508 Economics of Public Management**

Application of capital theory in the decision-making processes of government; alternative approaches to government project evaluation and important practical issues encountered by state development planners. Specific applications of project analysis in the area of physical and human resource management such as water resource man

agement, public health, and education.

Prerequisite: 2204-501 or equivalent

3 semester hours

#### **2204-540 Development in Economic Education**

Insights into recent experiments incorporating economic education into the curriculum, K-12; restructuring of curriculum to promote economic understanding. Materials, written and audio-visual, designed for economic education. Guest lectures supplement the experience of the course instructor.

Prerequisite: 2204-501 or equivalent.

3 semester hours

#### **2204-541 Foundations of Contemporary Economic Thought**

Antecedents of current economic theory: economics as a cumulative science; the works of the creative economists; the uses and limitations of economic theory.

Prerequisite: 2204-501 or equivalent.

3 semester hours

#### **2204-542 Economic Fluctuations and Forecasting**

Theories to account for variations in business activity. Macroeconomic models and other forecasting approaches; economic fluctuations in the United States; proposals for reducing fluctuations. Harrod Domar model; Modern Theory of Growth.

Prerequisite: 2204-501 or equivalent.

3 semester hours

#### **2204-543 United States and the World Economy**

Principles of international finance, monetary relations and trade; contemporary International monetary and trade problems and policies; the economic aspects of current American foreign policy.

Prerequisite: 2204-501 or equivalent.

3 semester hours

#### **2204-544 Government and Business**

The evolution of government influences on the functioning of the American economy; the causes and consequences of government regulation and control; the importance of economic analysis; the foundation of public policies.

Prerequisite: 2204-501 or equivalent

3 semester hours

#### **2204-545 Economics of Labor**

Principal trends in the industrial and occupational distribution of labor; current developments in labor-management relations in both private and public sectors; market trends and institutional factors that determine employment, wage rates, fringe benefits and industrial peace.

Prerequisite: 2204-501 or equivalent

3 semester hours

The following Senior-Graduate courses in Economics may be elected with special permission of the graduate advisor. Course description may be found in the current undergraduate bulletin.

2204-403	Comparative Economic Systems .....	3
2204-415	Economics of Social Problems .....	3

## **Educational Leadership**

### **Administration and Supervision**

(For program information, see page 33 of companion volume)

#### **827-510 Educational Administration I**

Nature and dynamics of organizations from the viewpoints of social and behavioral sciences. Leadership, decision-making, conflict resolution and other theories consid-

ered in the educational setting. Impact of environmental and personal forces on organizational behavior.

Prerequisite: One and one-half years of successful teaching under certification.  
3 semester hours

#### **0827-511 Educational Administration II**

Processes and findings of organization science applied to educational problems. Frameworks for instruction, personnel, finance, facilities, service and public participation at the school district level. Emphasizes issues, trends and contemporary problems.

Prerequisite: Educational Administration I (0827-510).

3 semester hours

#### **0827-512 Administration of Elementary Schools**

Educational leadership required for effective elementary school organization and administration. Changing role of the principal, his relationships with staff and students and current principles, practices and techniques with regard to scheduling, staff utilization, plant operation, student activities and school community relations.

Prerequisite: Educational Administration I (0827-510).

3 semester hours

#### **0827-513 Secondary School Administration**

Special administration problems of the junior and senior high school. Recruitment of staff; scheduling of teachers and students; department organization and school morale. Recent experiments in organization structure. Supervision of instruction as a major function of administration. Current demands of adults in the community. How the secondary school operates in relation to the elementary school and higher education to help design education as a continuous process. Students write a paper on a special administrative problem.

Prerequisite: Educational Administration I (0827-510).

3 semester hours

#### **0827-514 Vocational School Administration**

Characteristics, needs, problems and organizational patterns of vocational schools. Experiences, procedures, practices for appraising programs and individual achievement. Identification and assessment of current issues and trends in technical and vocational education as an integral part of the total school program.

Prerequisite: Educational Administration I (0827-510).

3 semester hours

#### **0827-515 Problems in Secondary School Administration**

For advanced students in Educational Leadership with some administrative or supervisory background. Assuming the role of a senior high school principal, the student confronts a broad spectrum of administrative realities. Previously-studied theories of leadership and organization guide the analysis of administrative behavior and situation dynamics.

Prerequisites: 0827-510, 0827-513 and experience in school administration or supervision, or permission of instructor.

3 semester hours

#### **0827-521 Education Law**

Legal theory, practical politics, relationship of school district organization to other units of government, appellate function of the State Commissioner of Education and the State Board of Education, New Jersey school laws (Title 18A of the Revised Statutes) and Rules and Regulation of the State Board of Education and their decisions. New Jersey School legal structure compared with that of other states.

3 semester hours

#### **0827-523 School Plant Planning**

The relationship between educational facilities and educational programs. Site selection, development of educational specifications, the physical environment, selection



of equipment, programming of various facilities based on curricula and community needs. Group visits to exemplary educational facilities.

Prerequisites: A course in the principles and methods of curriculum design, and Educational Administration (0827-510).

3 semester hours

#### **0827-526 School Business Administration**

Role of school business administration in the public school. Various functions, structures and techniques of operation. Simulation techniques utilized to construct both a traditional and PPBS budget.

Prerequisite: Educational Administration (0827-510)

3 semester hours

#### **0827-540 Supervision I**

School personnel as principals, coordinators and department and subject area supervisors in elementary and secondary schools. Contribution and supervisors in instruction and in supporting the professional work of classroom teachers.

Prerequisite: One and one-half years of teaching experience, and Educational Administration. (0827-510).

3 semester hours

#### **0827-541 Supervision II**

The day-to-day supervision of schools at certain levels and within special subject areas of study. Organizing for instructional improvement and innovation; giving attention to new teachers, probationary teachers. Each student prepares a file on helpful ideas, plans, descriptions of practice, materials of instruction suited to the level or special subject area in which he plans a career.

Prerequisite: Supervision I (0827-540) or its equivalent and 0827-510.

3 semester hours

#### **0827-560 The American College**

Overview of structure and functioning. History, philosophy, sociology and politics of the college as a unique and dynamic institution in American society: educational opportunity and the organization of higher education; open admissions; status, trends and implications; minority group youth in higher education; student initiatives for reform; faculty governance; etc.

3 semester hours

#### **0827-565 The Two-Year Junior College**

History, purpose, patterns and trends of the two-year college, including the junior college, the community college and university extension centers.

3 semester hours

#### **0827-610 Theory and Research in Administration**

Applies organization science to individual problems in educational administration. Experiences in the internship of field experience are given scholarly analysis.

3 semester hours

#### **0827-611 Advanced Seminar on Educational Issues**

Final integrating experience in the leadership program. Implications for educational administration of major contemporary issues and trends.

Prerequisite: Permission of graduate advisor.

3 semester hours

#### **0827-615 Supervised Field Experience in Administration and Supervision**

Students are assigned work within an educational agency, operating at the level and in the domain of their professional specialty. They work under an established administrator on some limited function of the position, approved through mutual agreement among the student, the administrator and the college supervisor. This experience is not to be construed as an "internship," as it will not encompass the total job description of the administrator. A written report on the activity or research



paper will be approved by the administrator and presented to the college supervisor, who will evaluate the total experience.

Prerequisite: Permission of graduate advisor.

3-6 semester hours

### **0827-616 Internship in Educational Administration**

Full semester assignment of guided work within an educational institution's administrative office. Sixth year students are eligible to choose this internship plan, but it is advised that arrangements be made for released time, at least one half time, if the internship is to be carried on in an institution where student is employed. The experience is planned to include a wide variety of administrative experiences such as locating and interviewing candidates for positions, scheduling, inservice professional development, special committee leadership, projects that influence curriculum building arrangements and budgets. The sixth year student may be required to take 0827-610 or 0827-611 for three additional semester hours during this internship. In all cases, he will complete his research project as a part of his internship assignments. (Open only to Post-Master Study.)

Prerequisite: Permission of advisor.

6 semester hours

### **0827-620 Systems Analysis in Education**

Latest techniques in operations research for educational purposes. Systems analysis techniques studied and utilized by student in an instructional, curriculum or administrative mode. Simulation techniques in classroom-oriented activities.

Prerequisite: 0827-510 and 0829-530.

3 semester hours

### **0827-622 School Finance**

Current economic environment; state, local and federal taxation; state school aid theory and practice; school district indebtedness; statutory school budget and fiscal controls; various cost-quality instruments and role of school fiscal structure in relation to local, state and federal governments.

Prerequisite: Educational Administration I (0827-510); School Law (0827-521).

3 semester hours

### **0827-623 Advanced School Plant Planning**

Advanced course in school plant enables student to plan an innovative educational facility. Independent (contract) study approach, coupled with scheduled critiques with professor is main method of instruction.

Prerequisite: A course in school plant planning and 0827-510.

3 semester hours

### **0827-625 School Plant Maintenance and Operation**

Latest techniques in the maintenance and operation of the school plant. Various specialists in specific areas of study utilized in the instructional program. Determination of work loads, formulation of job descriptions, supply storage, care of mechanical and hand tools and equipment and care of the school site. (Not offered every year.)

Prerequisite: Educational Administration I (0827-510).

3 semester hours

### **0827-643 Staff Personnel Administration**

Personnel practices and problems in current school situations. Roles of policy-making bodies, the public, professionals, para-professionals and general staff in effective communication for the optimum use of human resources. Problems relate to such areas as recruitment, selection, retention and evaluation of staff.

Prerequisite: Educational Administration (0827-510) and Supervision I (0827-540).

3 semester hours

## Educational Research and Evaluation

(For program information, see page 33 of companion volume)

### 0824-502 Quantitative Methods in Education

Methods of descriptive statistics and an introduction to statistical inference: organization and presentation of statistical data; measures of central tendency, variability, and relative position; probability and the normal curve; measures of relationship—parametric and non-parametric; tests of significance. Laboratory exercises; individualized instruction.

3 semester hours

### 0824-503 Methods of Research

The theory and methods of historical, descriptive and experimental research: formulation of a research problem; use of bibliographical sources and reference materials; statistics and measurement in research; types and instruments of research; data collection and analysis; writing the research report and career opportunities in research.

1 semester hours

### 0824-504 Action Research for Teachers

Principles and techniques of research applicable to classroom situations. Various kinds of classroom research are studied and analyzed. Practice provided in planning and outlining a research project, the development of experimental designs and evaluation of the structure and outcomes of classroom research. Open to M.A.T. and certification students only.

1 semester hours

### 0824-505 Interpretation and Application of Educational Research

Provides an understanding of research studies dealing with current issues in education. Representative research and evaluation studies will be critically analyzed.

Prerequisite: A course in statistics or testing and 0824-503 or equivalent.

1 semester hours

### 0824-507 Measurement and Evaluation: Cognitive Domain

Theory and practice to develop comprehension of and skill in constructing tests in the cognitive domain, such as intelligence, achievement and aptitude tests. Laboratory exercises included.

1 semester hours

### 0824-508 Measurement and Evaluation: Affective Domain

Theory and practice course to develop comprehension of and skill in constructing tests in the affective domain, such as opinionnaires, interest tests, attitude scales and self concept tests. Laboratory exercises included.

1 semester hours

### 0824-578 Testing and Evaluation

Principles and practices of educational and psychological measurement in guidance and teaching: historical and philosophical orientation; basic statistical concepts underlying measurements; test validity and reliability; response set; test construction; evaluation and interpretation of testing data; grading; reporting to students, parents and administrators; critical analysis of various standardized intelligence, ability and personality tests; experimental tests. Place of tests in the instructional program stressed.

1 semester hours

### 0824-603 Seminar in Research

Opportunity to carry out a research project—historical, descriptive or experimental in nature—culminating in a written report.

Prerequisite: Methods of Research (0824-503) or equivalent.

1 semester hours

**0824-630 Evaluation of Educational Programs and Personnel**

Problems, issues and procedures involved in designing and carrying on evaluation studies dealing with institutions, programs, curricula and personnel performance. Students will undertake an evaluation project and write a project report. Course content and requirements will be geared to individual needs of students.  
3 semester hours

**0824-650 Independent Study in Educational Research and Evaluation**

Designed for individuals who, in consultation with advisor, wish to undertake an in-depth analysis of a specific problem. Permission of the faculty advisor is required.  
1-3 semester hours

**Technology in Education**

(For program information, see page 33 of companion volume)

**0841-520 Production of Audio-Visual Instructional Materials: Part I Non-Projected Materials**

Drawings, charts and graphs, bulletin boards, felt-boards, maps, demonstrations, exhibits and displays, dioramas and 3-dimensional models.  
Prerequisite: 0841-400  
3 semester hours

**0841-521 Projection of Audio-Visual Instructional Materials: Part II Projected and Audio Materials**

Slides, filmstrips, opaques, transparencies, magnetic tapes and motion pictures.  
Prerequisite: 0841-400  
3 semester hours

**0841-540 Television Production Seminar**

Combination lecture, laboratory and seminar in television studio production. Camera operation, principles of lighting, sound, elements of set design, functions of floor director, control room operations and basic television directing.  
3 semester hours

**0841-541 Television Programming Seminar**

Combination lecture, laboratory, seminar in the programming of ideas, the creative concept, pre-planning, executing the idea and evaluating the presentation. Local and commercial programs examined.  
3 semester hours

The following 400 level Senior-Graduate courses are available as electives with permission of the graduate advisor. Course descriptions may be found in the current undergraduate bulletin.

	semester hours
0841-400 Selection and Utilization of Educational Media .....	3
0841-420 Teaching Materials Workshop .....	3
Prerequisite: 0841-400	

**English**

(For program information, see page 36 of companion volume)

**British Literature**

**1501-500 Old English Literature**

Specimens of alliterative poetry, including Beowulf, are read in the original for an appreciation of the literary art and the language medium.  
3 semester hours



**1501-505 Chaucer**

Selected works in Middle English.

3 semester hours

**1501-508 Shakespeare Studies: Tragedies**

The complete canon in the genre.

3 semester hours

**1501-509 Shakespeare Studies: Comedies**

The complete canon in the genre.

3 semester hours

**1501-510 Shakespeare Studies: Histories**

The complete canon in the genre.

3 semester hours

**1501-511 Elizabethan and Jacobean Drama**

Investigates drama before, during and after Shakespeare.

3 semester hours

**1501-515 Seventeenth Century Literature: Poetry**

3 semester hours

**1501-516 Seventeenth Century Literature: Prose**

3 semester hours

**1501-518 Milton**

Major writings in verse and prose read and discussed in light of current scholarship.

3 semester hours

**1501-520 Restoration and Eighteenth Century Drama**

Playwrights from Wycherly to Sheridan.

3 semester hours

**1501-521 Dryden, Pope and Swift**

Reconstructs the context of Restoration and eighteenth century satire in terms of the prevailing mentality and political institutions.

3 semester hours

**1501-525 The Eighteenth Century Novel**

Defoe, Richardson, Fielding, Smollett and Sterne are the principal authors studied.

3 semester hours

**1501-529 British Romanticism I**

Wordsworth and Coleridge.

3 semester hours

**1501-530 British Romanticism II**

Byron, Shelley and Keats.

3 semester hours

**1501-531 Victorian Studies I**

Non-fiction writers such as Carlyle, Mill, Newman, Ruskin, Arnold and Huxley.

3 semester hours

**1501-532 Victorian Studies II**

Novelists such as Dickens, Thackeray, the Brontes, Eliot, Trollope and Meredith.

3 semester hours

**1501-533 Victorian Studies III**

Later poets of the era such as Rossetti, Swinburne, Hardy, Bridges, Hopkins, Thompson.

3 semester hours



**1501-535 Hardy, Joyce and Lawrence**

The major works are studied intensively.

3 semester hours

**1501-540 The Modern British Novel**

Working in both serious and comic veins, the course deals with such writers as L. P. Hartley, Anthony Powell, Doris Lessing and Kingsley Amis.

3 semester hours

**American Literature**

**1501-550 Studies in Early American Literature**

Authors who most effectively or creatively reflected the major cultural developments of the Colonial period.

3 semester hours

**1501-555 Emerson, Thoreau and Whitman**

In-depth study of the major works.

3 semester hours

**1501-556 Poe, Hawthorne and Melville**

Three nineteenth century writers are evaluated in terms of their own critical assumptions and of recent scholarship.

3 semester hours

**1501-557 Twain, Howells and James**

Development of the art of fiction. Works of the three men are studied in relation to the literary heritage they reflect.

3 semester hours

**1501-560 Modern American Fiction**

Development of the American novel with emphasis on form, substance and critical theory. Dreiser, Crane, S. Anderson, Hemingway and Faulkner are among the authors considered.

3 semester hours

**1501-561 Modern American Poetry**

Selected major American poets from Emily Dickinson to the present.

3 semester hours

**1501-563 Recent American Fiction**

American fiction since 1950. Authors considered include Bellow, Flannery O'Connor, Updike, Mailer, Ellison.

3 semester hours

**1501-564 American Drama**

Playwrights may be chosen for special study: Eugene O'Neill, Elmer Rice, Maxwell Anderson, Thornton Wilder, Tennessee Williams, Arthur Miller and Edward Albee.

3 semester hours

**Comparative Literature**

**1503-512 Literary Criticism to 1800**

Plato, Aristotle, Horace, Longinus, and their imitators and "interpreters" in the Medieval Renaissance and Neo-Classical periods.

3 semester hours

**1503-513 Literary Criticism from 1800 to the Present**

The break from classical theory (notably by the Romantics) and the search, principally in our own day, for new definitions of the function of literature.

Prerequisite: 1503-512 or permission of instructor.

3 semester hours

**1503-570 Greek Classical Drama**

Plays of Aeschylus, Sophocles, Euripides and Aristophanes are studied in the context of Athenian stage traditions.

3 semester hours

**1503-574 Ibsen, Strindberg and Shaw**

Three great forerunners of twentieth century drama are studied intensively.

3 semester hours

**1503-575 Myth and Literature\***

Part I deals with the relationship of myth and ritual to literature with special attention to the theories of Frazer, Freud, Jung, Campbell, Cassirer and Neumann; Part II investigates recurrences of ancient myths in literature. Course must be taken in sequence.

3 semester hours

**1503-576 Major Neo-African Writers**

Intensive study of such authors as Machado de Assis, Dunbar, Brown, Césaire, Senghor, Brooks and Scott in the light of European, American and African scholarship.

3 semester hours

**1503-577 Literature and the Film\***

Designed to examine especially the novel and drama as they appear in film. One genre is chosen for a given semester's study.

3 semester hours

### Education

**1501-580 Recent Research and Experiment in the Teaching of English**

Current methods of the teaching of English in the secondary schools and research in language, literature and composition.

3 semester hours

**1501-581 Studies in Communications Skills**

Opportunity for teachers to study new multi-media methods of instructing basic verbal and research skills and to develop and test instructional materials for use in their own classrooms.

3 semester hours

### Seminars and Thesis

**1501-600 Seminar in British Literature**

Advanced study of a genre, movement, criticism or a single author in depth.

Limit, 15 students. Approval by instructor.

3 semester hours

**1501-601 Seminar in American Literature**

Advanced study of a genre, movement, criticism or a single author in depth.

Limit, 15 students. Approval by instructor.

3 semester hours

**1503-602 Seminar in Comparative Literature**

Advanced study of a genre, movement, criticism or a single author in depth.

Limit, 15 students. Approval by instructor.

3 semester hours

**1903-603 Seminar in Computers in the Humanities**

Types of literary research suitable for analysis by computer techniques including linguistic chronology, linguistic geography, authenticity and attribution, stylistic analysis and computer-assisted instruction. Elementary programming and a computer research project.

Limit, 15 students. Approval of instructor.

3 semester hours

\*See current announcements for specific content of the course and name of instructor.

**1501-605 Seminar in Literary Research**

Instruction and practical experience in such areas as reference sources, textual study, kinds of criticism and the basics of editing. Recommended for the first or second semester of graduate study.

Limit, 15 students. Approval of instructor.

3 semester hours

**1501-606 Thesis Writing**

Working closely with his research advisor, the student conducts a scholarly investigation and completes an acceptable Master's thesis.

Limit, 15 students.

3 semester hours

## **Environmental Studies**

(For program information, see page 37 of companion volume)

**0843-561 Practicum in Camp Leadership**

Techniques and procedures for the development of curriculum guides and materials discussion. Discussion sessions and assigned readings help deal with practical problems.

3 semester hours

**0843-562 Practicum in Camping Education and Administration**

Identification and solution of problems arising in camp administration; current practices at both private and institutional camps. Educational philosophies and objectives as they relate to camping, finances, personnel selection, waterfront organization, food purchasing, staff supervision, sanitation, health and safety, camp management, records and reports, insurance, kitchen management, maintenance and other phases of camp administration. Practical application in the children's demonstration camp.

3 semester hours

**4951-404 Outdoor Teaching Sites for Environmental Education**

Field-oriented course uses lecture, discussion and field activities; the integration of school sites into ongoing school curricula. Individualized and group project work on actual outdoor site development.

2 semester hours

**4951-501 Environmental Studies I**

The understanding of abiotic (physical) components of spaceship earth, for environmental literacy. Basic systems and cycles necessary for decision making, problem solving and critical thinking.

3 semester hours

**4951-502 Environmental Studies II**

Provides students with an understanding of the socio-cultural components of spaceship earth, for environmental literacy. An overview of man's modification of spaceship earth; impact upon the human milieu.

3 semester hours

**4951-503 Methods in Environmental Research**

An overview of the methodology of research in environmental science; the problems of conducting such research.

Prerequisites: 4951-501 and 4951-502.

3 semester hours

**4951-507 Change Strategies for Environmental Cadres**

Historical, philosophical and conceptual understanding of planned change; roles of an environmental cadre: as a change agent; in personal influence; in persuasion and presentation; in communication of innovations; and in phasing planned change strategy. Each student is required to attend public meetings, evaluate community processes of



change, and produce a unique communication.

Prerequisites: 4951-501 and 4951-502.

3 semester hours

#### **4951-550 Environmental Education**

Historical, philosophical and conceptual understanding of the field of environmental instruction: teacher-student roles, environmental education models, attitude formation and change, handling controversial issues, developing environmental education programs and implementing innovative programs. Each student is required to develop and implement an environmental education encounter experience.

3 semester hours

#### **4951-555 Curriculum Development in Environmental Education**

Historical, philosophical, theoretical and conceptual understanding of traditional environmental education: nature conservation, outdoor and environmental education. Developing traditional and futuristic curricula, guides and materials. Each student is required to develop materials for a local school program.

Prerequisite: 4951-550.

3 semester hours

#### **4951-560 Practicum in Environmental Education**

Application, analysis, development and implementation of program components; nature, conservation, outdoor and environmental education. Each student formulates program and/or unit with appropriate concepts, objectives and activities. A product of the course will be a booklet of environmental education encounter experiences.

Prerequisite: 4951-550.

3 semester hours

#### **4951-601 Research Projects in Environmental Studies**

To complete the research proposal initiated in the research methods course 503.

3 semester hours

## **Fine Arts**

(For program information, see page 38 of companion volume)

#### **0831-501 Contemporary Viewpoints in Art Education**

The literature of the foundations of art education; readings selected from philosophy, the social and behavioral sciences, and the history of art education; implications of the developments in science and technology.

3 semester hours

#### **0831-502 Advanced Curriculum Construction**

For students with interest in curriculum construction or revision, both in the elementary and secondary programs; evaluation of curricular materials in use in New Jersey and throughout the country in terms of principles of curriculum construction.

3 semester hours

#### **1001-600 Master's Thesis I**

A serious research project in art for the student finishing his course work.

Prerequisite: The ability to do advanced research in art as acknowledged by the department.

2 semester hours

#### **1001-601 Master's Thesis II**

Continuation of the above.

2 semester hours

#### **1001-603 Seminar in Art (with graduate project)**

An opportunity to make an extensive study in the field of art through the Fall and Spring semesters. The student examines and defines a problem and explores it in increasing depth and significance. The project may be a written document or a studio project. Students are advised to initiate these projects after completing at least two



courses on a graduate level in the area of the project, and no more than 12 to 16 credits in their general program. Approval for 604 should be secured in the Spring and Summer session preceding Fall registration for the course. Approval is gained from:

- 1) the instructor as to competence in the medium, or background preparation.
- 2) a faculty member who will serve as personal advisor throughout the project.
- 3) the departmental graduate advisor who will conduct the 603, 604 seminar.

2 semester hours

**1001-604 Seminar in Art (with graduate project)**

Continuation of 1001-603.

2 semester hours

**1001-611 Individual Study I**

Under this course designation, advanced students may extend their experience beyond the regular course offering in a chosen field or medium, to a maximum of 12 hours in the particular medium. Direction, conduct and evaluation of the work are developed in consultation with the instructor. As a basis for admission and planning, each student will present a representative selection of his prior work in the chosen medium. Departmental permission; credits to be arranged.

2-8 semester hours

**1001-612 Individual Study II**

Same as above.

Departmental permission; credits to be arranged.

2-8 semester hours

**1001-620 Field Course in Art I**

Travel courses to art sources in the United States and foreign countries not to exceed 6 graduate credits. Contents and requirements will be set up as the courses evolve. First-hand contact with the historic art forms of the places visited and with artists and craftsmen. Each student selects an area of study in which the places visited have rich art resources. As preparation for the course, the student outlines his chosen study problem, reads background material, and lists sources he expects to utilize.

2-6 semester hours

**1001-621 Field Course in Art II**

Same as above.

2-6 semester hours

**1002-511 Graduate Painting I**

Studio in painting to further the creative expression and technical knowledge of the student in various painting media; personal and professional development through studio work, trips and the study of the contemporary artists.

Graduate prerequisites and permission of department.

2 semester hours

**1002-512 Graduate Painting II**

Continuation of prerequisite: 1002-511.

2 semester hours

**1002-513 Graduate Painting III**

Continuation of prerequisite: 1002-512.

2 semester hours

**1002-514 Graduate Painting IV**

Continuation of prerequisite: 1002-513.

2 semester hours

**1002-521 Graduate Sculpture I**

The student explores independently one or two materials and techniques, and begins to find his own directions as a sculptor.

Graduate prerequisites and permission of department.

2 semester hours

**1002-522 Graduate Sculpture II**

Continuation of prerequisite: 1002-521.

2 semester hours

**1002-523 Graduate Sculpture III**

Continuation of prerequisite: 1002-522.

2 semester hours

**1002-524 Graduate Sculpture IV**

Continuation of prerequisite: 1002-523.

2 semester hours

**1002-550 Graduate Screen Printing I**

The graphic art techniques of silk-screen from the creation of the master design through the construction of necessary printing facilities and printing; the use of tusche, glue, stencil lacquer, and photographic techniques.

Graduate prerequisites and permission of department.

2 semester hours

**1002-551 Graduate Screen Printing II**

Continuation of prerequisite: 1002-550.

2 semester hours

**1002-552 Graduate Intaglio Printing I**

Additional competency and depth of experience in etching, dry point, aquatint, and soft techniques. For art majors or other advanced art students.

Graduate prerequisites and department permission.

2 semester hours

**1002-553 Graduate Intaglio Printing II**

Continuation of prerequisite: 1002-552.

2 semester hours

**1002-554 Graduate Woodcut Printing I**

The woodcut and its relation to painting in color, size and richness; the cutting of various woods and veneers; printing approaches; inventiveness in using other materials in relation to wood. Lectures on prints of the past and field trips to important print collections and exhibits.

Graduate prerequisites and permission of department.

2 semester hours

**1002-555 Graduate Woodcut Printing II**

Continuation of prerequisite: 1002-554.

2 semester hours

**1002-556 Graduate Lithography I**

From design and execution of master drawing to the finished print; first hand knowledge of tools, materials and techniques of the lithographic process; adaptation of the lithographic phase of printmaking to classroom use.

Graduate prerequisites and permission of the department.

2 semester hours

**1002-557 Graduate Lithography II**

Continuation of prerequisite: 1002-556.

2 semester hours

**1002-558 Graduate Lettering I**

Styles and techniques of lettering applied in such forms as manuscripts, signs, posters, display and advertising layout; brief introduction to typography.

Graduate prerequisites and permission of the department.

2 semester hours

**1002-559 Graduate Lettering II**

Continuation of prerequisite: 1002-558.  
2 semester hours

**1002-560 Graduate Graphic Design I**

Techniques and principles of design of printed matter and displays, elements of layout, illustration, typography, printing process, and preparation of copy for the printer. Graduate prerequisites and permission of the department.  
2 semester hours

**1002-561 Graduate Graphic Design II**

Continuation of prerequisite: 1002-560.  
2 semester hours

**1002-564 Graduate Screen Printing III**

Continuation of prerequisite: 1002-551.  
2 semester hours

**1002-565 Graduate Screen Printing IV**

Continuation of prerequisite: 1002-564.  
2 semester hours

**1002-574 Graduate Woodcut Printing III**

Continuation of prerequisite: 1002-555.  
2 semester hours

**1002-575 Graduate Woodcut Printing IV**

Continuation of prerequisite: 1002-574.  
2 semester hours

**1002-590 Modern Philosophies of Art I**

Major writers in art in the nineteenth and twentieth centuries; the nature of the creative experience; art in the life of the individual and of society; the creative process new materials; institutions and sentiments affecting current thinking in the field. Discussions based on readings of philosophers, poets, social scientists and psychologists  
3 semester hours

**1003-591 Modern Philosophies of Art II**

The writings of 19th and 20th century artists and their interpreters; such works as the "Futurist's Manifesto" and Kandinsky's "The Spiritual in Art".  
3 semester hours

**1003-592 Selected Problems in Art History I**

Art problems, iconographic topics and themes of a historic, social and philosophical nature. Topic selection will depend upon the special areas of the professor or guest professor invited for the semester.  
3 semester hours

**1003-593 Selected Problems in Art History II**

Continuation of prerequisite: 1003-592.  
3 semester hours

**1003-594 Northern Renaissance Art**

15th and 16th century paintings in northern Europe especially Flanders and Holland the development of realism and style in relation to social change and the general ideas of the period, including contemporary music; Jan Van Eyck, Van der Weyden, Bosch, Peter Breughel and Matthias Grunewald.  
3 semester hours

**1090-525 Graduate Metalwork and Jewelry I**

Designing jewelry and small sculpture in varied metals; the techniques of flat sheet



metal and casting.

Graduate prerequisites and permission of the department.

2 semester hours

### **1090-526 Graduate Metalwork and Jewelry II**

Continuation of prerequisite: 1990-525.

2 semester hours

### **1090-531 Graduate Ceramics: Pottery and Sculpture I**

Experimentation with the potter's wheel; handbuilding methods of forming; further experimentation with clay compositions, glazes and methods of firing. Advanced students will be responsible for developing craftsmanship and a personal idiom.

Prerequisites: Undergraduate experience in ceramics, portfolio, and instructor's approval.

2 semester hours

### **1090-532 Graduate Ceramics: Pottery and Sculpture II**

Continuation of prerequisite: 1090-531.

2 semester hours

### **1090-533 Graduate Ceramics: Pottery and Sculpture III**

Continuation of prerequisites: 1090-532.

2 semester hours

### **1090-534 Graduate Ceramics: Pottery and Sculpture IV**

Continuation of prerequisite: 1090-533.

2 semester hours

### **1090-541 Graduate Weaving I**

Designing with simple and four harness floor looms, in a variety of techniques and materials.

Graduate prerequisites and permission of department.

2 semester hours

### **1090-542 Graduate Weaving II**

Continuation of prerequisite: 1090-541.

2 semester hours

### **1090-543 Advanced Decoration of Fabrics I**

Designing the fabric: block printing, screen printing, stitchery, hooking, appliques and dyeing techniques, knotting, knitting and crochet.

Graduate prerequisites and permission of the department.

2 semester hours

### **1090-544 Advanced Decoration of Fabrics II**

Continuation of prerequisite: 1090-543.

2 semester hours

## **French**

(For program information, see page 40 of companion volume)

### **1102-505 History of the French Language**

Structures of modern French as outcome of linguistic and cultural processes over 2,000 years.

3 semester hours

### **1102-506 Advanced French Phonetics**

Principles of general and experimental phonetics. Previous knowledge of phonetics desirable.

3 semester hours



**1102-511 Medieval French Literature**

French Literature from 9th through 15th centuries, emphasizing the "Chanson de Geste" and the "Roman Courtois."

3 semester hours

**1102-513 Medieval Theater**

Origins and development of theater in France during the Middle Ages.

3 semester hours

**1102-516 Rabelais and Montaigne**

Humanistic ideals as reflected in the works of Rabelais and Montaigne.

3 semester hours

**1102-517 Poetry of the Renaissance**

Major works of Marot, Ronsard, du Bellay and other poets of the Pleiade.

3 semester hours

**1102-525 Moralists of the Seventeenth Century**

Representative works of La Rochefoucauld, Mme. de Sévigné, Saint Simon and La Bruyère.

3 semester hours

**1102-526 Corneille, Racine and Moliere**

Dramatic art as reflected in representative plays of the three authors.

3 semester hours

**1102-527 Descartes and Pascal**

Their vision of the world and their impact on French literature.

3 semester hours

**1102-530 Philosophy and Politics in Eighteenth Century France**

(formerly Montesquieu and Voltaire)

The impact of the "philosophes" on the revolution in religion and political and sociological thought.

3 semester hours

**1102-531 The Development of the Novel in Eighteenth Century France**

(formerly Rousseau and the Precursors of Romanticism)

Study of the social and historical context of a novel and its particular form (e.g. epistolary, episodic, etc.).

3 semester hours

**1102-532 Eighteenth Century Seminar**

(formerly French Theater of the Eighteenth Century)

Changing topics to include in-depth studies of individual authors and genre topics.

3 semester hours

**1102-537 Nineteenth Century French Theater**

Hugo's dramatic theories and their application in representative plays.

3 semester hours

**1102-538 French Novel of the Nineteenth Century I**

Insight into major works of Hugo, Balzac and Stendhal.

3 semester hours

**1102-539 French Novel of the Nineteenth Century II**

Insight into major works of Flaubert and Zola.

3 semester hours

**1102-540 Nineteenth Century French Poetry**

Development of French poetry from Romanticism to Symbolism.

3 semester hours

**1102-542 Twentieth Century Theater**

Major modern currents and trends in drama.  
3 semester hours

**1102-543 Twentieth Century Poets**

Within a general developmental context, emphasis upon thematic and structural analysis of work of Apollinaire, Reverdy, Char, Eluard and Bonnefoy.  
3 semester hours

**1102-544 Twentieth Century Novel I**

Evolution of the French novel: Proust, Gide and Mauriac.  
3 semester hours

**1102-545 Twentieth Century Novel II**

Literature engagée: Malraux, Sartre and Camus.  
3 semester hours

**1102-546 Contemporary Novel**

Directions of the French novel from the "nouveau roman" to the structuralist novel.  
3 semester hours

**1102-603 Research Seminar**

Opportunity to apply research techniques on a specific topic of the student's choice.  
2 semester hours

**1503-536 The Romantic Movement**

Comparative approach to the study of romanticism in England, Germany and France. (Taught in English. Recommended to French majors as a free elective.)  
3 semester hours

The following courses are offered as remedial work for students requiring supplementary language preparation. These courses carry no graduate credit. Course descriptions may be found in the current undergraduate bulletin.

1102-250 Advanced Composition

1102-472 French Language Workshop

## Geography

(For program information, see page 59 of companion volume)

**2206-501 Environmental Geography**

Spatial distribution of energy in the atmosphere treated in terms of natural factors and man's induced changes (atmospheric pollution). Incoming sun energy as modified by man is traced through the atmosphere, vegetation, soil and water.  
Prerequisite: 2206-520 or 521  
3 semester hours

**2206-502 Problems in Economic Geography**

Research course examines spatial patterns of economic activities. Stress on current methodology and research interests.  
Prerequisite: 2206-520 or 521  
3 semester hours

**2206-503 Culture Regions**

Seminar investigation of man's role in changing the face of the earth. Emphasis on spatial perception, and cultural attitudes towards space as well as the diffusion process.  
Prerequisite: 2206-520 or 521  
3 semester hours

**2206-504 Pro-Seminar in Geography**

Research on selected problems in Geography. Problems will vary according to instructor.

Prerequisites: 2206-520 or 521

3 semester hours

**2206-509 Water Resource Systems**

The spatial patterns of the water resource, both surface and ground water. Processes affecting availability and techniques of estimation.

Prerequisite: 2206-520 or 521

3 semester hours

**2206-510 Urban Systems and Planning**

The complexity of the city and its modification by means of planning; the systems approach to urban study; the ecological base; different models of urban systems; the impact of technological change; the hierarchy of urban regions; planning in the existing systems and creating new ones.

Prerequisite: 2206-520 or 521

3 semester hours

**2206-520 Geography: Theory and Application**

The field in historical perspective, with emphasis upon contemporary trends; philosophical roots and quest for theory. Analyzes theory and methods of application and their relationships in order to understand the role of applied in contrast to theoretical geography.

3 semester hours

**2206-521 Applied Geography: Research Methods and Techniques**

Advanced research techniques, beginning with census reports, government surveys and reports from other agencies. Field research both cultural and physical; mapping techniques; the design of appropriate scale and data transformation to familiarize the range of possibilities and the need for careful choice of data and maps. Computer applications in geographic problem solving.

3 semester hours

**4905-550 Urban Contexts: A Holistic View**

Interdisciplinary study of urbanization, the processes that produce and shape urban agglomerations. From this holistic perspective the interaction of different social, cultural, economic, political and planning forces examined for their impact upon the resulting system.

3 semester hours

**4905-551 Functional Characteristics of Cities**

The spacing, location and size of cities, the role of transportation in city rhythms and intra and inter-city relationships. Urban design planning juxtaposed with multi-faceted decision-making processes for an examination of their relative position in the management of urban systems.

3 semester hours

Partial list of electives acceptable for the concentration in Urban Studies:

- 2001-553 Urban Psychology
- 2001-555 Psychological Aspects of Poverty
- 2202-533 Spanish Culture in the U. S. Today
- 2204-545 Economics of Labor
- 2205-518 Urban History of Northern New Jersey
- 2205-526 The Industrialization of America, 1865-1900
- 2206-510 Urban Systems and Planning
- 2206-521 Applied Geography: Research Methods and Techniques



- 2207-501 Public Administration and Public Policy
- 2208-565 Community Resources and Youth
- 2208-567 Power and Social Stratification
- 2208-572 Selected Problems: Sociology of the Suburbs
- 2208-564 Social Planning
- 2208-566 The Metropolitan Community
- 2208-573 Sociology of the City Sub-Areas
- 2208-577 Sociology of Poverty in the U.S.

## Geoscience

(For program information, see page 42 of companion volume)

(Courses listed are not necessarily offered every year)

### 1914-503 Advanced Physical Geology

In-depth study of the major problems of physical geology: processes of erosion, rock formation, continent and ocean-basin origin and relationships, earthquakes, interior of the earth, vulcanism, island arcs, mountain building, paleomagnetism, continental drift, and sea-floor spreading. Field trips.

Prerequisite: Physical Geology and 8 additional hours of geoscience at 400 level  
4 semester hours (2 hours lecture, 4 hours laboratory)

### 1914-504 Advanced Historical Geology

In-depth analysis of major problems in geologic history, stratigraphy and paleoenvironments as interpreted through lithologic and paleontologic evidence. Required field trips.

Prerequisite: Stratigraphy  
3 semester hours (3 hours lecture)

### 1914-518 Petrography

Rock textures, structures and mineralogy using the polarizing microscope. Identification and classification of rocks and the origin and history of the rock as determined by microscopic study of thin sections. Required field trips.

Prerequisites: Petrology and Optical Mineralogy  
4 semester hours (3 hours lecture, 2 hours laboratory)

### 1914-530 Paleocology

Principles: distribution and association of fossils as interpreted from the evidence presented in the geologic record. Detailed paleoecological field study made of selected faunal assemblages.

Prerequisite: Invertebrate Paleontology or undergraduate biology major sequence or the permission of the instructor.  
3 semester hours (2 hours lecture, 2 hours laboratory)

### 1914-531 Advanced Invertebrate Paleontology

Fossil invertebrates with emphasis on their evolutionary, paleoecologic and stratigraphic significance. Laboratory and field work stresses collecting, preparation, identification and curatorial and faunal analysis techniques. Required field trips.

Prerequisite: Invertebrate Paleontology or undergraduate biology major sequence or the permission of the instructor.  
1 semester hours (3 hours lecture, 2 hours laboratory)

### 1914-535 Vertebrate Paleontology

The geologic history, morphology, taxonomy, paleogeography and evolution of fossil vertebrates. Required field trips.

Prerequisites: Historical Geology, Vertebrate Zoology and one other course in vertebrate anatomy or permission of the instructor.  
1 semester hours (2 hours lecture, 2 hours laboratory)



**1914-536 Paleobotany**

The taxonomy, morphology, evolution, paleoecology and stratigraphic significance of fossil plants. Required field trips.

Prerequisite: Undergraduate geoscience or biology major sequence including Historical Geology and General Botany or permission of the instructor.

3 semester hours (2 hours lecture, 2 hours laboratory)

**1914-538 Sedimentary Petrography**

The interpretative study of the structures, textures, composition and genesis of sedimentary rocks. Laboratory analyses of sediments and sedimentary rocks by optical, mechanical and chemical methods and the graphical representation of the resultant data.

Prerequisites: Sedimentology and Optical Mineralogy

4 semester hours (3 hours lecture, 2 hours laboratory)

**1914-543 Advanced Mineralogy**

Chemical and physical principles as applied to minerals. Detailed study of representative minerals from the various families. Advanced techniques will be performed by the student. Field trips.

Prerequisite: Mineralogy or permission of instructor.

3 semester hours (3 hours lecture)

**1914-545 Optical Mineralogy**

Theory and practice of using the polarizing microscope to study and identify minerals; theory of light transmission in minerals; the practical effect. Required field trips.

Prerequisite: Mineralogy

4 semester hours (3 hours lecture, 2 hours laboratory)

**1914-547 Clay Mineralogy**

Atomic structure, crystal chemistry, identification, classification, occurrence and genesis of the clay minerals, including the use of differential thermal analysis, x-ray and microscope equipment for their study.

Prerequisite: Mineralogy

3 semester hours (2 hours lecture, 2 hours laboratory)

**1914-560 Advanced Marine Geology**

Development and evolution of the ocean basins; marine sedimentation; shoreline development and classification; submarine topography; mineral resources of the sea. Laboratory analysis of marine sediments and fossil assemblages. Required field trips.

Prerequisite: Physical Geology and one course in Marine Geology or Oceanography at the 400 level.

3 semester hours (2 hours lecture, 2 hours laboratory)

**1914-571 Geophysics**

Theory and application of conventional geophysical methods: seismology, magnetism, electricity and gravity. Laboratory includes the collection and interpretation of geophysical data. Field trips.

Prerequisites: Physical Geology, College Physics and Calculus.

3 semester hours (3 hours lecture)

**1914-572 Tectonics**

The major structures of the Earth, the principle of isostasy, mountain-building, continental drift, sea-floor spreading, and possible causes of tectonism in the Earth. The methods of study, results obtained, interpretation of the data and the latest theories of tectonism. Required field trips.

Prerequisites: Physical Geology or Principles of Geology, and College Physics.

3 semester hours (3 hours lecture)

**1914-573 Nuclear Geophysics**

Principles and application of nuclear physics to study of Earth, including: natural radiation; origin and occurrence of isotopes; use of isotopes in prospecting, geochronology and space geology; paleotemperature determinations; activation analysis; mining and use of radioactive elements; nuclear energy.

Prerequisites: Advanced Physical Geology or Advanced Historical Geology.

3 semester hours (2 hours lecture, 2 hours laboratory)

**1914-575 Geochemistry**

Chemical laws and principles applied to the Earth: chemical composition of the Earth, distribution and relative abundance of the elements. Use of isotopes in geology and the application of chemical principles to geologic processes. Study of meteorites included. Required field trips.

Prerequisites: General Chemistry, Petrology

3 semester hours (3 hours lecture)

**1914-578 Igneous and Metamorphic Geology**

The interpretative study of igneous and metamorphic rocks in detail with the aim of properly identifying and naming the rocks and interpreting their history; rock suites from classical areas. Required field trips.

Prerequisites: Optical Mineralogy, Petrology

4 semester hours (3 hours lecture, 2 hours laboratory)

**1914-580 Field Geology**

The principles and techniques of geologic field work. Independent and team mapping of local areas of geologic interest using modern field methods and instruments.

4 semester hours (3 hours lecture, 2 hours laboratory)

**1914-695 Thesis**

In-depth field, laboratory and library investigation of a problem in the area of the student's interest in geoscience; results will be presented in oral and written form culminating in a written thesis.

Prerequisite: Matriculation for the MA degree in geoscience.

4 semester hours

The following Senior-Graduate courses may be elected with permission of the graduate advisor. Course descriptions may be found in the current undergraduate bulletin.

	semester hours
1914-410 Geology of New Jersey.....	3
1914-431 Invertebrate Paleontology .....	4
1914-434 Stratigraphy .....	4
1914-437 Sedimentology .....	4
1914-443 Mineralogy .....	4
1914-444 Petrology .....	4
1914-457 Meteorology .....	4
1914-460 Introduction to Physical Oceanography .....	4
1914-464 Geology of the Oceans .....	4
1914-465 Coastal Marine Geology .....	4
1914-466 Field Methods in Oceanography and Marine Biology .....	1
1914-467 Dynamic Beach Processes .....	1
1914-468 Tidal Marsh Sedimentation .....	1
1914-469 Independent Study in the Marine Sciences .....	1-4
1914-472 Structural Geology .....	3
1914-480 Field Studies in Geoscience .....	4
1914-484 Geology Field Trip .....	1
1914-490 Seminar .....	2
1914-495 Independent Study in Geoscience .....	1-4

## Health Professions

(For program information, see page 43 of companion volume)

### **0836-501 Selected Developments in Safety**

Selected aspects of safety, including major areas: home, industrial, public and transportation. Community's role in promoting a safe environment.

Prerequisite: A basic course in safety or the equivalent.

3 semester hours

### **0836-502 Safety: Man and His Environment**

Advanced study of health and safety aspects of the environment: air, water, industrial pollution and the impact of expanding population on health problems.

Prerequisite: A basic course in safety, the environment, or permission of advisor.

3 semester hours

### **0837-500 Health Aspects of Family Living**

The family in contemporary society and alternatives to the traditional family, including health aspects of reproduction, heredity, growth and development.

Prerequisite: A basic course in health education.

2 semester hours

### **0837-510 Health Education Workshop I**

For teachers of health education; deeper understandings of subject matter, current methods and techniques for the classroom, and considerations for curriculum development.

Prerequisite: Undergraduate preparation in health education or in a related field of study.

3 semester hours

### **0837-512 Alcohol Education Workshop**

Current teaching materials, techniques and approaches in the alcohol education programs in schools and communities: physiological, psychological, sociological, legal, economic, religious, safety, and rehabilitative aspects.

Prerequisite: (0837-301) Addictions and Dependencies; or (0837-413) The Drug Abuse Problem, or permission of advisor.

3 semester hours

### **0837-513 Drug Abuse Seminar**

Advanced study in selected aspects of drugs: recent pharmacological, legal, economic and rehabilitative developments. Emphasizes individual project approach.

Prerequisite: (0837-301) Addictions and Dependencies; or (0837-413) The Drug Abuse Problem, or permission of advisor.

3 semester hours

### **0837-514 Venereal Disease Education**

Workshop emphasizing pathology, epidemiology, treatment and prevention of venereal disease. Includes consideration of school and community program development.

Prerequisite: A basic course in health or permission of advisor.

3 semester hours

### **0837-516 Selected Developments in Community Health**

Advanced study of aspects of community health: recent developments in air and water pollution, waste disposal and sanitation, and communicable disease protection.

Prerequisite: A basic course in community health or permission of the advisor.

3 semester hours

### **0837-525 History and Foundations of Health**

Health and medical developments, traced from primitive man through early civilizations to modern times.

3 semester hours



**0837-526 Curriculum Development in Health Education**

Nature and construction of comprehensive health education curricula, elementary grades through senior high school.

Note: Recommended for health education majors only.

**0837-528 Evaluation in Health**

Measurement and evaluation processes relating to health in schools and communities; examination and development of research instruments to evaluate behavior, knowledge and attitudes; interpretative and administrative factors involved in the evaluation process.

Prerequisite: A basic course in statistics, or in tests and measurement.

3 semester hours

**0837-530 Seminar in Basic Issues in Health**

Contemporary health topics and problems are identified, interpreted and critically analyzed for development of deeper insights and understandings of the basic issues; individual or group research project.

3 semester hours

**0837-531 Independent Study in Health**

Under the direction of departmental faculty member. Semester hours determined by department chairman following consultation with departmental research committee. For students in health professions only.

2-6 semester hours

**0837-603 Research Seminar in Health Education**

An original research document in field of health education, presented to the graduate faculty of the Department of Health Professions for approval. Conducted during two semesters of the academic year with scheduled class meetings and individual consultation.

Prerequisites: Evaluation in Health (0837-528); Methods of Research (0824-503).

3 semester hours

The following Senior-Graduate courses may be elected with approval of the graduate advisor. Course descriptions may be found in the current undergraduate bulletin.

	semester hours
*0836-408 Driver Education .....	3
*0837-409 Advanced Driver Education .....	3
0837-411 School Health Program .....	3
0837-413 The Drug Abuse Problem .....	3
0837-460 Systems of Health Service Delivery .....	3

\*Cannot be taken for credit in health professions curriculum.

## History

(For program information, see page 60 of companion volume)

**2205-501 New Interpretations in History**

Designed to help teachers keep up to date in the special fields of American, European and Non-Western history. Major trends and developments in the study and teaching of history in the light of recent representative examples of historical research and interpretation.

Prerequisite: Open only to history candidates or students with Social Studies certification.

3 semester hours

**2205-502 History and the New Social Studies**

Designed to assist teachers, administrators and supervisors in acquiring a compre-



hensive view of modern materials, methods and curricula in history and the social sciences. Critical evaluation; implications for total school programs and for actual use in the classroom.

Prerequisite: Open only to students with Social Studies certification, or permission of the instructor.

3 semester hours

**2205-511 Seminar in American Colonial History**

The forces and conditions of the colonial period which contributed to the shaping of American political and economic institutions, social practices and ideals, intellectual outlooks, and attitudes toward Europe.

Prerequisite: Open only to History or Social Science candidates or students with Social Studies certification.

3 semester hours

**2205-512 The American Revolution, 1763-87**

The causes and course of the American Revolution from both British and American viewpoints, including analysis of economic, political, social and intellectual factors.

3 semester hours

**2205-513 Problems of the New Nation, 1789-1828**

The growth of political institutions under the Constitution, the gaining of respect as a new country in the family of nations, the establishment of economic credit, and the rise of American nationalism.

3 semester hours

**2205-517 Age of Franklin D. Roosevelt**

An opportunity to study that part of recent American history centering about Franklin Delano Roosevelt. While concentrating on domestic aspects of American life, attention is given also to foreign affairs and their impact on the daily lives of Americans.

Prerequisite: Open only to History or Social Science candidates or students with Social Studies certification.

3 semester hours

**2205-518 Urban History: National Trends in N.J. Cities**

An advanced survey of the urban dimension in American history and of urban history as a discipline. Late 19th and 20th century national trends are pin-pointed within the development of Paterson, Passaic, Jersey City, Newark and their suburbs.

Prerequisite: Open only to History or Social Science candidates or students with Social Studies certification.

3 semester hours

**2205-519 The United States in the Nuclear Age**

The role of the United States in world affairs in the period 1939 to the present; the impact of domestic affairs on foreign policy.

Prerequisite: Open only to History or Social Science candidates or students with Social Studies certification.

3 semester hours

**2205-520 U.S.-Far Eastern Relations**

United States relations with China and Japan, 1842 to the present; the men who formulated and implemented U.S. foreign policy.

3 semester hours

**2205-521 Civil War & Revolution in Chinese History, 1911-49**

The transformation of China from Empire to Peoples Republic; Chinese concepts of revolution and the intellectual, political and social changes which preceded the formation of the Peoples Republic in 1949.

3 semester hours

**2205-522 Revolutionary Russia, 1905-21**

The historical forces of 19th and 20th century Russia which led to the Bolshevik Revolution of November, 1917 and to the consolidation of Soviet power by 1921.

3 semester hours

**2205-523 History of Soviet Diplomacy**

Changes in the ideological determinants of Soviet diplomacy contrasted with fluctuations in internal and external political and economic policies. Contributions of leading Soviet statesmen to diplomatic history.

3 semester hours

**2205-526 The Industrialization of America, 1865-1900**

The causes and nature of the industrialization of the American economy after the Civil War; factors responsible for rapid economic growth; the impact of changing productive techniques on American institutions and human welfare.

Prerequisite: Open only to History or Social Science candidates or students with Social Studies certification.

3 semester hours

**2205-527 The Industrialization of Europe**

European economic development with major attention to the period since about 1750; comparing economic growth during the 19th and 20th centuries in Britain, France, Germany, Italy and Russia.

3 semester hours

**2205-529 Europe of the Dictators, 1919-39**

The political, social, economic and intellectual developments in the major states of western Europe during the interwar period, with emphasis on varieties of fascism.

3 semester hours

**2205-530 Nationalism in Modern India**

A cultural and political history of India from 1800 to the present; the contributions of Hindu nationalism and British liberalism to the Indian independence movement and the post-1947 democratic experiment.

3 semester hours

**2205-532 Modernization in Japanese Cultural History**

Modernization in East Asia with focus on Japan. Japanese experience in adjusting new world forces of the 19th and 20th centuries considered against the background of her traditional values and institutions. Comparisons with China and Korea.

3 semester hours

**2205-533 French Revolution and Napoleon**

The background of the French Revolution, its changing course and cast of characters during 1789-99, and the advent to power and imperial regime of Napoleon, 1799-1814.

3 semester hours

**2205-534 France of the Republics**

The development of modern France since 1870; political, economic and intellectual conditions and trends through the Third, Fourth and Fifth Republics.

3 semester hours

**2205-537 Nineteenth Century European Intellectual History**

Romantic, utilitarian, conservative, liberal and early existential streams of thought in 19th century Europe; the impact of these intellectual movements on European society.

Prerequisite: Open only to History or Social Science candidates or students with Social Studies certification.

3 semester hours

### **4905-603 Reading Seminar in History & The Social Sciences**

Required for all master's degree candidates concentrating in Anthropology, Economics, Geography, History, Political Science, Sociology or Urban Studies, this seminar entails directed independent study in preparation for a three-hour written comprehensive examination in the area of concentration. Candidates should register for the seminar in the semester preceding the examination date:

<b>Registration</b>	<b>Examination</b>
Fall	March
Spring	October

## **Home Economics**

(For program information, see page 44 of companion volume)

### **1301-500 Contemporary Issues in Home Economics**

Seminar dealing with timely issues in home economics. Special emphasis on changes in society which affect the family. Attention centered on problems of continuing concern.

2 semester hours

### **1301-501 Seminar in Home Economics Education**

Philosophies and programs in all areas of Home Economics Education relevant to contemporary problems. Implementation of innovative programs at all levels of education emphasized.

3 semester hours

### **1301-506 Supervision of Home Economics**

Curricula, current trends, facilities, professional literature and evaluation techniques. Competencies for the role of supervisor analyzed. Provides elective credits toward Supervisor's Certificate.

Prerequisite: Classroom teaching experience.

3 semester hours

### **1301-508 Independent Study**

An opportunity to study in depth, areas of home economics which are not offered in the regular curriculum. Approval of Department Chairman required.

1-3 semester hours

### **1301-509 Research Seminar**

Library or experimental research on specific problems of limited scope. Work may be taken in the following areas: child and family, family and consumption economics, family housing, foods, nutrition, textiles, clothing or home management.

Prerequisite: Methods of Research (0824-503)

3 semester hours

### **1301-514 Child in the Family**

Theories and research related to child rearing techniques. Critical analysis of factors influencing parental practices and their effects on the child.

3 semester hours

### **1301-520 Clothing and Human Behavior**

Analysis of factors affecting appearance and satisfaction in clothing. Economic, sociological and psychological aspects of clothing in relation to the individual.

3 semester hours

### **1301-530 Consumer Behavior**

Investigating family consumer behavior as affected by individual perception, motivation and personality, family organization, social class, subcultures and economic con-



ditions of the nation. Models of consumer behavior evaluated.  
3 semester hours

### **1301-531 Family Financial Problems**

Study of families with financial concerns and crises. Emphasis on effective use of money to meet families' life styles and alleviate problem areas.  
3 semester hours

### **1301-532 Family and Consumer Economics**

Study of families and consumers from economic perspectives in society. Emphasis on broad implications of economic practices and policies for various groups of families as they function in the marketplace.  
3 semester hours

### **1301-535 Consumer and Family Law**

Laws and policies of institutions which affect family functions, relationships and welfare.  
3 semester hours

### **1301-540 Interdisciplinary Study of the Family**

Contributions various academic disciplines (history, anthropology, biology, economics, as well as psychology and sociology) make towards a more comprehensive understanding of family life.  
3 semester hours

### **1301-542 Dynamics of Family Interaction**

Critical review of concepts and theories, both psychological and sociological, currently used in understanding patterns and problems of family relationships.  
3 semester hours

### **1301-544 Intercultural Study of the Family**

Analytical study of cross cultural regularities and differentials in family structures, functions and impact of social change on family values and patterns. Varied conceptual approaches to the study of family as well as a broad acquaintance with empirical studies and research.  
3 semester hours

### **1301-560 Housing the Family**

Analysis of location, structure, design, furnishings and equipment as a setting for the physical and emotional development of the individual and the family.  
3 semester hours

### **1301-570 The Management of Family Resources**

Family as a decision-making unit. Directing its resources for more effective living. Philosophical, psychological, sociological and economic trends which have a direct influence on family's ability to maximize its resource potential and utilization.  
3 semester hours

### **1301-571 Problem-Solving in Family Counseling**

Counseling families in problem-solving on resource use, including the resources of time, energy, attitudes and material and non-material goods and services.  
3 semester hours

### **1301-572 Management Seminar**

Application of personal management concepts to one's professional role with the goal of developing more effective ways of handling professional situations and responsibilities.  
3 semester hours

### **1301-580 New Findings in Nutrition**

Recent developments in nutrition and review of fundamentals.  
3 semester hours



The following Senior-Graduate courses are available as electives with permission of the graduate advisor. Course descriptions may be found in the current undergraduate bulletin.

	semester hours
1301-403 Consumer Education Techniques .....	3
1301-404 Evaluation in Home Economics .....	3
1301-408 Workshop in Home Economics .....	3
1301-445 The Inner City Family .....	3

## Industrial Education and Technology

(For program information, see page 46 of companion volume)

### 0996-501 Historical and Contemporary Industrial Education Literature

Material surveyed for applicability to laboratory teaching and professional improvement: historical writings, research literature, materials provided by corporations and government agencies and pertinent reference works.

3 semester hours

### 0996-502 Curriculum Construction & Course Organization in Industrial Education

Development of industrial education courses of study and instructional materials.

3 semester hours

### 0996-503 Contemporary Problems in Industrial Education

Seminar group exploration of a current problem or issue in contemporary industrial education; a research, discussion, presentation format.

3 semester hours

### 0996-504 Instructional Materials in Industrial Education

The creation and development of innovative instructional materials and methodology for industrial education; teacher, commercially- and industrially-produced materials. Innovation stressed.

3 semester hours

### 0996-505 Supervision of Industrial Education

Principles and practices discussed and evaluated in relation to supervisory techniques, budget supplies, inventories, maintenance, safety and upgrading of in-service teachers.

3 semester hours

### 0996-509 Industrial Education Facilities Planning

Planning and equipment selection: practical application of architectural aspects, floor plan layouts, equipment selection, bid preparation and two- or three-dimensional models.

3 semester hours

### 0996-606 Independent Study in Industrial Education I, II or III

Advanced individual study on problems beyond what can be accomplished in the classroom. Credit may be obtained for an approved industrial course or seminar related to the student's special area of interest. May be taken three times, with the graduate advisor's approval, for a total of three semester hours.

Prerequisite: Application through department office prior to registration; 0824-503.

1-3 semester hours

### 0996-607 Research Seminar in Industrial Education

Research problems and techniques as related to industrial materials, processes and products are used as basis for developing industrial research reports.

Prerequisite: 0824-503

3 semester hours

**0997-501 Principles & Philosophy of Cooperative Industrial Education**

Historic, cultural, social, governmental, economic and technical forces which affect development of cooperative industrial education programs.

2 semester hours

**0997-502 Curriculum Construction in Cooperative Industrial Education**

Techniques designed to meet needs of related and laboratory teaching, and school work programs; curriculum materials especially adapted to needs of part-time cooperative trade occupational programs.

2 semester hours

**0997-503 Problems in Organizing & Teaching Cooperative Industrial Education Programs**

Various practices for coordinating high school programs with needs of local industry. Emphasis on supervisory responsibilities within the school and cooperation required with public and private agencies.

2 semester hours

**0826-582 Vocational Guidance and Occupational Information**

See interdisciplinary course description under Student Personnel Services.

Prerequisite: 0826-580

3 semester hours

The following Senior-Graduate courses may be elected with permission of the graduate advisor. Course descriptions may be found in the current undergraduate bulletin.

	semester hours
0990-408 Field Studies of Industry .....	2
0990-409 Cooperative Industrial Work Experience I, II or III .....	2
0990-411 Design in Industry .....	3
0990-421 Architectural Drafting – Residential .....	3
0990-422 Engineering Graphics .....	3
0990-423 Architectural Design and Engineering .....	3
0990-431 Offset Lithography .....	3
0990-432 Advanced Offset Lithography .....	3
0990-433 Color Photography .....	3
0990-434 Color Separation .....	3
0990-441 Wood Technology .....	3
0990-442 Residential Construction .....	3
0990-451 Plastic Technology .....	3
0990-461 Management & Production Technology .....	3
0990-468 Welding Technology .....	4
0990-471 Electronic Circuit Applications .....	3
0990-472 Industrial Electronic Circuits .....	3
0990-473 Introduction to Logic Machines .....	3
0990-481 Power Technology .....	3
0990-482 Fluid Power .....	3
0990-483 Fluidics .....	3
0990-491 Construction Technology .....	3
0990-492 Manufacturing Technology .....	3

## Mathematics

(For program information, see page 48 of companion volume)

**701-510, 511 Workshop in Mathematics Education I, II**

Specific contemporary topics and current issues in the junior and senior high school.

Available experimental and commercial textbooks. Mathematical content. Sources of aids and equipment. Evaluation. Training of key in-school personnel. Problems of implementation.

3 semester hours each

**1701-520 Set Theory**

Historical development, paradoxes, ordered sets, Schroder-Bernstein theorem, axiom of choice, transfinite induction, cardinal and ordinal numbers.

Prerequisite: 1701-222

3 semester hours

**1701-521, 522 Real Variables I, II**

Real number system; Lebesgue measure and integration; differentiation; Fourier series; LP, Metric, Normed vector, Banach and Hilbert spaces.

Prerequisite: 1701-425 or equivalent

3 semester hours each

**1701-525, 526 Complex Variables I, II**

Integration and differentiation in the complex domain, Cauchy's theorem, Cauchy integral formula, Laurent expansion, residues, elements of conformal mapping. Series and product representations.

Prerequisite: 1701-425 or equivalent

3 semester hours each

**1701-531, 532 Abstract Algebra I, II**

Basic algebraic structures including field theory, Galois theory, ideals, modules, lattices and groups.

Prerequisite: 1701-431 or equivalent

3 semester hours each

**1701-535, 536 Linear Algebra I, II**

Vector spaces and linear transformations, including inner product, matrix representations, binary and quadratic forms, eigenvalues and eigenvectors, canonical forms and functions of matrices.

Prerequisite: 1701-335 or equivalent

3 semester hours each

**1701-537 Mathematical Logic**

Topics include: sentence calculus, quantification theory, Godel's completeness theorems and decidability.

Prerequisite: 1701-436 or equivalent

3 semester hours

**1701-540 Probability**

Sample spaces and events, axioms of probability, combinatorial analysis, conditional probability and stochastic independence, Bernoulli trials, random variables and probability distributions, expected value and variance, probability generating functions.

Prerequisite: 1701-340 or equivalent

3 semester hours

**1701-541 Applied Statistics**

Review of estimation and hypothesis testing for one sample and two sample problems introduction to non-parametric statistics, sampling techniques, and linear regression fundamental principles of design, analysis of variance and analysis of covariance.

Prerequisite: 1701-440 or 443

**1701-542 Introduction to Stochastic Processes**

Generating functions, convolutions, recurrent events, random walk models, gambler's ruins problems, Markov chains and processes, time dependent stochastic processes queuing theory and epidemic models.

Prerequisite: 1701-540

3 semester hours



**1701-543 Statistical Theory**

Review of the normal, gamma and chi-square distributions; sampling theory and the 't' and 'F' distributions; point estimation of one parameter, minimum variance unbiased estimation, method of moments estimators, maximum likelihood estimation and interval estimation, testing hypotheses, Neyman-Pearson Lemma, Likelihood Ratio Tests, Power. Prerequisite: 1701-440 or 443

**1701-544 Statistical Inference**

Point estimation of one parameter, maximum likelihood estimation and interval estimation, testing hypothesis, regression and correlation, response surfaces. Prerequisite: 1701-443

3 semester hours

**1701-545 Multivariate Analysis**

Statistical procedures for the multivariate normal distribution. Parameter estimation and derived distributions, Hotelling's T statistic, multivariate linear hypothesis, principal component analysis.

Prerequisite: 1701-541 and 548, Recommended: 1701-535

3 semester hours

**1701-546 Non-Parametric Statistics**

Selected distribution-free tests and estimation techniques including sign, Holmogorov-Smirnov, Wilcoxon signed rank, Mann-Whitney, Chi-square, rank correlation, Kendall's tau, Kruskal-Wallis, Friedman, McNemar, and others.

Prerequisite: 1701-541

3 semester hours

**1701-547 Design and Analysis of Experiments**

Fundamental principles of design; completely randomized experiments; randomized block; Latin Squares; Graeco-Latin squares; split-plot design; factorial experiments; confounding; fractional replication; experimental and sampling errors.

Prerequisite: 1701-541 and 548

3 semester hours

**1701-548 Applied Regression Analysis**

Matrices, linear regression; correlation; analysis of residuals; multiple regression; polynomial regression; partial correlation; stepwise regression; regression and model building; regression applied to analysis of variance problems; introduction to nonlinear regression.

Prerequisite: 1701-440 or 443

**1701-549 Sampling Techniques**

Sampling and survey methodology; basic sampling theory; simple, stratified, random, cluster, systematic and area sampling. Sampling errors and estimation procedures.

Prerequisite: 1701-443 or 440 or equivalent

3 semester hours

**1701-551 Topology**

Basic point-set topology, topological spaces, homeomorphisms, compactness, connectedness, separation properties, uniformities. Introductory algebraic topology, homology groups and homotopy groups.

Prerequisite: 1701-425 or equivalent

3 semester hours

**1701-554 Projective Geometry**

Methods of synthetic and analytic projective geometry are compared and used to emphasize the fundamental concepts of Euclidean Geometry. Dependence of many common properties and theorems of Euclidean geometry; properties of lines, parallelism, perpendicularity, similarity of figures, and the definition of distance.

Prerequisite: 1701-450 or equivalent

3 semester hours



**1701-555 Differential Geometry**

Application of vectors to the study of classical three-dimensional geometry. Topics include: plane and space curves, first and second fundamental forms, lines of curvature, asymptotic lines, geodesics, theorems of Meusnier, Euler, Gauss and Codazzi.

Prerequisite: 1701-222 or equivalent

3 semester hours

**1701-560 Numerical Analysis**

Determination of functions from observed experimental data. Topics include: polynomial approximation, interpolation, numerical solution of equations, linear algebraic equations, matrix inversion and eigenvalue analysis, numerical solution of differential equations.

Prerequisite: 1701-335 and 1701-425 or equivalent

3 semester hours

**1701-564 Ordinary Differential Equations**

Existence and uniqueness of solutions, periodic solutions, linear and non-linear systems, singularities, stability theory.

Prerequisites: 1701-335, 1701-420, 1701-425 or equivalent

3 semester hours

**1701-566 Partial Differential Equations**

Fourier series, separation of variables, hyperbolic, parabolic and elliptic equations. Fourier and Laplace transform methods.

Prerequisites: 1701-335, 1701-420, 1701-425 or equivalent

3 semester hours

**1701-568, 569 Applied Mathematics I, II**

Topics selected from solution of equilibrium and motion problems, initial and boundary value problems, Laplace and Fourier transform methods, solution by eigenvalue expansion, Green's functions, linear operators in infinite dimensional spaces, integral equations and calculus of variations.

Prerequisites: 1701-335, 1701-420, 1701-425 or equivalent

3 semester hours each

**1701-570 Administration and Supervision of Mathematics**

Problems of organization, administration and supervision in the mathematics program of the school. Functions, duties and qualifications of the supervisor investigated. Current problems and research findings used to assist in the formation of objectives.

3 semester hours

**1701-571 Curriculum Construction in Mathematics**

Contemporary proposals for the mathematics of grades K through 12. Consideration is given to the problem of implementation of current recommendations. Examination is made of mathematical concepts underlying various programs.

3 semester hours

**1701-572 Teaching of General Mathematics**

Mathematics programs for the non-college-bound high school student. Topics considered: basic characteristics and needs of non-academic students, preparation and use of resource materials, classroom teaching techniques and methods of motivation. Emphasis on development of suitable curricula for non-academic students.

3 semester hours

**1701-573 Mathematics Materials for the Teacher of Mathematics**

Construction, adaptation and effective use of materials to improve the teaching of high school mathematics. Particular attention given to the overhead projector, films and models and to material for the mathematics laboratory and club activities.

3 semester hours

**1701-574 Problem Analysis in Secondary Mathematics**

Psychology and techniques of problem-solving. Discovery and heuristic methods. Intuitive and inductive reasoning in the solution of non-routine problems from high school mathematics. Problem formation and test construction.

Prerequisite: 1701-222 or equivalent

3 semester hours

**1701-575 Selected Topics in Mathematics**

Selection of topics associated with secondary and early college years of mathematics investigated from an advanced point of view. Topics will be selected to give the teacher a broader view from such areas as algebra, geometry, linear programming and game theory, real and complex analysis, probability and statistics.

Prerequisite: 1701-222 or equivalent

3 semester hours

**1701-576 Research Seminar in Mathematics Education**

This course is designed for matriculated graduate students in the mathematics education program. Purpose of the course is to have the students survey and analyze recent research projects.

3 semester hours

**1701-577 Mathematics Education in the Elementary School**

The contemporary mathematics curriculum of the elementary and middle school. Content: the role of behavioral objectives and learning theory in curriculum development. Materials. Teacher training. Related research findings.

3 semester hours

**1701-581 Systems Programming**

Assembly languages, macros, subroutines, data structures, vectors and arrays, tables, hash coding, stacks, lists, data base system.

Prerequisite: 1701-461

3 semester hours

**1701-582 Theory of Automata and Formal Languages**

Languages and grammars, finite automata and regular grammars, context free grammars, push-down automata, Turing machines, computability, deterministic languages, linear bounded automata and stack automata.

Prerequisite: 1701-461 and either 1701-431 or 1701-436

3 semester hours

**1701-583 Theory of Digital Machines**

Switching functions, Boolean algebra, Boolean minimization, sequential machines, threshold logic, regular expressions.

Prerequisite: 1701-461

3 semester hours

**1701-584 Compiler Techniques**

Interpreters and compilers, operator precedence, top-down and bottom-up compilers, production language, semantics, compiler-compilers.

Prerequisite: 1701-581 and 1701-582

3 semester hours

**1701-585 Topics in Computer Science**

Recent developments in the field. Topics such as Monte Carlo methods, simulation and special areas of application may be selected.

Prerequisite: 1701-581

3 semester hours

**1701-595 Seminar in Mathematics**

Guided study of selected topics in major field of interest.

Prerequisite: Permission of graduate advisor

3 semester hours

The following Senior-Graduate courses may be elected with the permission of the graduate advisor. Course descriptions may be found in the current undergraduate bulletin.

	semester hours
1701-403 Techniques and Applications of Statistics .....	2
1701-410 Vectors and Matrices .....	2
1701-412 Introduction to Probability and Statistics .....	2
1701-414 Techniques of Statistical Control .....	2
1701-415 History of Mathematics .....	2
1701-420 Differential Equations .....	3
1701-425 Advanced Calculus I .....	3
1701-426 Advanced Calculus II .....	3
1701-428 Introduction to Topology .....	3
1701-431 Foundations of Modern Algebra .....	3
1701-433 Theory of Numbers .....	2
1701-436 Elements of Logic .....	2
1701-440 Statistical Methods for Research .....	3
1701-443 Statistics: Theory and Applications .....	3
1701-450 Foundations of Geometry .....	3
1701-460 Introduction to Applied Mathematics .....	2
1701-461 Computer Science I .....	3
1701-462 Computer Science II .....	3
1701-465 Linear Programming and Game Theory .....	3
1701-471 Selected Topics in Modern Mathematics .....	3
1701-472 Contemporary Programs in Secondary Mathematics .....	2

## Music

(For program information, see page 50 of companion volume)

Students may study applied music only when fully accepted into the graduate degree program in music. Lessons to be taken in a fall semester must be arranged with the graduate advisor for music no later than the previous May 1; in a spring semester, no later than the previous November 10. Applied music may be studied in summer session only with permission of the graduate advisor for music, and in no case for more than 2 semester hours.

Applied music may be studied only with a member of the faculty or with teachers approved by the department. Students of applied music are expected to take jury examinations each semester in which a full recital is not given in courses of 4 or 6 semester hours.

It is highly advisable for non-majors or pre-matriculated students to seek the advice of the graduate advisor for music for any of the following courses.

**1004-500 Applied Music I: Primary Instrument**

Study of performance in the student's major area of expression in a manner suited to those specializing in the area of music education or theory-composition. Fifteen private lessons per semester.

Admission by permission only. Music fee: \$150.00

2 semester hours

**1004-501 Applied Music II: Primary Instrument**

Continuation of 1004-500.

Admission by permission only. Music fee: \$150.00



**1004-502 Applied Music: Secondary Instrument I**

An elementary course for the beginner or the student with limited background. Fifteen half-hour lessons per semester, private instruction.

Admission by permission only. Music fee: \$75.00

**1004-504 Applied Music III: Primary Instrument**

Intensive study in a major performing area for students majoring in applied music. Two recitals of professional caliber are prepared as representative of two semesters of work, or one recital per semester. At least one must be publicly performed, the other may be before a faculty jury. Admission by audition only and open only to majors in applied music. Fifteen one-hour lessons per semester. Music fee: \$50.00.

6 semester hours

**1004-505 Applied Music IV: Primary Instrument**

Continuation of 1004-504. Music fee: \$50.00

6 semester hours

**1004-506 Applied Music V: Primary Instrument**

Intensive study in a major area of performance similar to 1004-504, 505. Open only to students majoring in applied music. Fifteen one-hour lessons per semester.

Admission by audition only. Music fee: \$100.00

4 semester hours

**1004-507 Applied Music VI: Primary Instrument**

Continuation of 1004-506. Music fee: \$100.00

4 semester hours

**1004-508 Applied Music VII: Primary Instrument**

Continuation of 1004-507. Music fee: \$100.00

4 semester hours

**1016-511 Theoretical and Aural Skills in Music I**

Principles and practice of music construction, aural skills in manipulating pitch and rhythm, and related structural analysis. The total spectrum of music as a base, with specific techniques of pitch and rhythm approached from harmonic and contrapuntal standpoints. Primitive and simple folk idioms, model counterpoint in two and three parts, diatonic tonal harmony in vocal and instrumental styles, tonal counterpoint in two parts and free composition. Open to music majors only.

3 semester hours

**1016-512 Theoretical and Aural Skills in Music II**

Continuation of 1016-511. Complex non-Western systems, modal and tonal imitative counterpoint in three and four parts, chromatic tonal harmony and expanded resources and techniques of the twentieth century.

Prerequisite: 1016-511 or equivalent, the latter determined by the instructor or the graduate advisor for music.

3 semester hours

**1016-513 Composition**

Writing of variations, small forms, songs and compositions for small ensembles. Analysis and workshop performance included.

Prerequisite: 1016-511 or equivalent.

3 semester hours

**1016-515 Advanced Counterpoint**

Analysis and composition of polyphonic forms techniques in inventions, canons and motets based on the several compositional styles of Western music.

Prerequisite: 1016-512 or equivalent.

3 semester hours



**1016-516 Advanced Instrumentation**

Workshop course: tutti instrumentation in orchestra and band; scoring for small ensembles; instruments, instrumental families and their possibilities and best uses. Direct instrumental setting of songs, hymns, etc., without the writing of a score. Elements of band military march construction and scoring. Performance of student instrumentalizations when possible.

Prerequisite: 1016-511 or equivalent.

2 semester hours

**1016-517 Theory of Sound**

Phenomena of sound as related to hearing music theory, musical instruments, reproduction of music (phonograph, etc.) and conditions under which music is heard.

2 semester hours

**1016-518 Private Study in Composition I**

Advanced work in musical composition in forms and genres determined jointly by teacher and student. Fifteen private lessons per semester.

Admission by permission only. Music fee: \$150.00

3 semester hours

**1016-519 Private Study in Composition II**

Continuation of 1016-518.

Admission by permission only.

3 semester hours

**0832-522 Classroom Methods: Piano**

Elementary and secondary classroom methods in the medium of the piano, dealing with principles, materials and methods in teaching groups of students. Designed for teachers wishing to exchange or learn new approaches to classroom techniques.

2 semester hours

**0832-523 Classroom Methods: Brass Instruments**

Materials of 0832-522 as applied to the brass choir.

2 semester hours

**0832-524 Classroom Methods: Stringed Instruments**

Materials of 0832-522 as applied to the woodwind choir.

2 semester hours

**0832-525 Classroom Methods: Stringed Instruments**

Materials of 0832-522 as applied to the string family.

2 semester hours

**0832-526 Classroom Methods: Percussion Instruments**

Materials of 0832-522 as applied to percussion instruments.

2 semester hours

**0832-527 Classroom Methods: Voice**

Materials of 0832-522 as applied to singing.

2 semester hours

**1004-528 Survey of Wind Instrument Music**

For brass and woodwind players, solo, ensemble and full band; materials for elementary and secondary school instrumentalists. Attention to music written for wind instruments and newly-published compositions. Class constitutes a laboratory band and ensemble groups.

2 semester hours

**1004-529 Choral Conducting**

Problems and techniques of choral rehearsal and performance: tone production, in-

tonation, balance and diction. Accompanied and unaccompanied choral repertoire.  
 Prerequisites: Undergraduate course in choral conducting or experience satisfactory to the instructor or the graduate advisor for music.  
 2 semester hours

### **1004-530 Advanced Conducting**

Baton techniques, clef reading, playing from score at the piano, transposition, score analysis, rehearsal techniques and problems of interpretation and accompaniment by orchestra and band, as well as choral conducting techniques.  
 Prerequisite: Preparation satisfactory to the instructor or the graduate advisor.  
 3 semester hours

### **1004-531 Ensemble: Chorus I**

Rehearsal and performance in conventional choral media.  
 Admission by audition only.  
 2 semester hours

### **1004-532 Ensemble: Chorus II**

A second semester of 1004-531.  
 2 semester hours

### **1004-533 Ensemble: Opera Workshop I**

Rehearsal and performance of operatic repertoire in English or English translation. Admission by audition only. Auditions held in the semester prior to the one in which the workshop is offered. Open to pianists and singers.  
 2 semester hours

### **1004-534 Ensemble: Opera Workshop II**

A second semester of 1004-533.  
 2 semester hours

### **1004-535 Ensemble: Band I**

Rehearsal and performance of band and wind ensemble literature.  
 Admission by audition only.  
 2 semester hours

### **1004-536 Ensemble: Band II**

A second semester of 1004-533.  
 2 semester hours

### **1004-537 Ensemble: Orchestra I**

Rehearsal and performance of orchestral repertoire. Admission by audition only.  
 2 semester hours

### **1004-538 Ensemble: Orchestra II**

A second semester of 1004-537.  
 2 semester hours

### **1004-539 Master Class in Musical Performance: German Vocal Literature**

Coaching small groups in refinements of performance, including stylistic interpretation, programming, interpretative analysis, diction, etc. Open through audition to both singers and pianists.  
 2 semester hours

### **1004-541 Master Class in Musical Performance: French Vocal Literature**

Similar to 1004-539, but focusing on French repertoire. Open through audition to singers and pianists.  
 2 semester hours

**1004-542 Master Class in Musical Performance: English Vocal Literature**

Similar to 1004-539, but focusing on English repertoire. Open through audition to singers and pianists.  
2 semester hours

**1004-543 Master Class in Musical Performance: Woodwind Literature**

Coaching small groups in solo and small ensemble literature for woodwind instruments. Stress on stylistic interpretation, tone, balance and other refinements of performance. Open through audition. Pianists may register as accompanists, but must audition.  
2 semester hours

**1004-544 Master Class in Musical Performance: Brass Literature**

Similar to 1004-543, but focusing on brass repertoire. Open to pianists and brass players through audition.  
2 semester hours

**1004-545 Master Class in Musical Performance: String Literature**

Similar to 1004-543, but focusing on string repertoire. Open to pianists and string players through audition.  
2 semester hours

**1004-546 Master Class in Musical Performance: Organ Literature**

Similar to 1004-542, but focusing on organ repertoire. Open to organists only, through audition.  
2 semester hours

**1004-547 Master Class in Musical Performance: Piano Literature**

Similar to 1004-543, but focusing on piano repertoire. Open to pianists only, through audition.  
2 semester hours

**1004-548 Master Class in Musical Performance: Percussion Literature**

Similar to 1004-543, but focusing on percussion repertoire. Open to percussionists through audition.  
2 semester hours

**1006-549 Modern Music**

Study of musical styles of the 20th century. Historical sources, major composers and recent trends.  
3 semester hours

**1006-550 Chamber Music**

Survey of vocal and instrumental music composed for one to ten performers, one per part, from the Renaissance through the modern era. Analysis of both compositional style and nature of chamber genres.  
3 semester hours

**1006-551 The Literature of the Orchestra**

Historical survey of such genres as the suite, overture, concerto, symphony and tone poem from the development of orchestral style of playing in the 17th century to the present.  
3 semester hours

**1006-552 An Ethnological Approach to Music**

Non-Western music; ethnic roots and influences, theory, media and performance practices. Folk and professional idioms of the Far East, Near East, Africa, Europe and the Americas. Study for non-majors will emphasize musical experience and social-cultural background, while music majors will also pursue a more technical approach.  
3 semester hours

**1006-553 Jazz**

Jazz as an art form, its impact on music and other contemporary arts; the sociological



mpact in American and world culture. Examination of specific performance techniques.  
 Prerequisite: At least one undergraduate or graduate semester of music or permission  
 of the instructor or graduate advisor for music.  
 1 semester hours

#### **006-554 Development of the Opera I**

Operas of the Baroque and Classical eras from Monteverdi through Beethoven; evolu-  
 tion of style, changing aesthetics, characterization and plot development and the cul-  
 tural environment within which these developments have taken place.  
 1 semester hours

#### **006-555 Development of the Opera II**

Continuation of 1006-554, examining operatic styles and representative works of the  
 Romantic and Modern eras.  
 Prerequisite: 1006-554 or permission of the instructor or graduate advisor for music.  
 1 semester hours

#### **016-501 Music Typography**

Preparation of music for publication through the use of the music typewriter; prepara-  
 tion of scores, instrumental parts and vocal scores.  
 1 semester hours

#### **017-572 Use of Recreational Music in Therapy**

Music in leisure time; group and individual activities; leading group recreational activi-  
 ties. Informal instruments and techniques of teaching them to people with limited mu-  
 sical backgrounds.  
 1 semester hours

#### **017-573 Influence of Music on Behavior**

Music as a human behavior with emphasis on effects of music on behavior and its re-  
 lationship to health.  
 Prerequisite: 4 hours of biology, 3 hours of sociology, 3 hours of psychology, and 3  
 hours of anthropology.  
 1 semester hours

#### **017-574 Music in Therapy**

Techniques and activities of the music therapist in relation to the various categories  
 of treatment; effect of the therapist's personality and attitudes.  
 Prerequisites: 1017-573 or 575.  
 1 semester hours

#### **017-575 Psychological Foundations of Music I**

Techniques of research and of reporting research on psychological aspects of music.  
 Prerequisites: 1017-575, 573.  
 1 semester hours

#### **017-576 Psychological Foundations of Music II**

Stress on factors affecting musical perception and review of music as an acoustical  
 phenomenon through experimental investigation. Measurement and diagnosis of mu-  
 sical ability.  
 Prerequisite: 1017-573.  
 1 semester hours

#### **017-577 Clinical Experience II**

Six months of clinical training as a music therapy intern in a program approved by the  
 National Association for Music Therapy. All other course work leading to the Bachelor  
 of Arts in Music must be completed before internship.  
 1 semester hour

#### **1832-578 The Kodaly System in Music Education**

Procedures for using Kodaly materials and techniques in teaching music reading and  
 comprehension.  
 1 semester hours



**0832-579 Problems and Materials of Instrumental Music**

Evaluation of teaching experiences; problems of organizing instrumental music in school; literature for orchestra, band and small ensemble at various levels.

2 semester hours

**0832-580 Problems and Materials of Choral Music**

Survey of choral repertoire for accompanied and unaccompanied groups, for changing, unchanged and mixed voices. Evaluating materials; building programs. Class constitutes a laboratory chorus.

2 semester hours

**Independent Study in Music**

1. 0832-599 Independent Study in Music Education
- 1004-599 Independent Study in Performance
- 1006-599 Independent Study in Music History and Literature
- 1016-599 Independent Study in Theory/Composition
- 1017-599 Independent Study in Music Therapy
- 1018-599 Independent Study in Sacred Music

Regularly listed courses pursued in greater depth, by arrangement with the graduate advisor for music prior to registration. May be elected more than once during the program, but only one course per semester. Written permission required.

3 semester hours each

2. 0832-600 Independent Study in Music Education
- 1004-600 Independent Study in Performance
- 1006-600 Independent Study in Music History and Literature
- 1016-600 Independent Study in Theory/Composition
- 1017-600 Independent Study in Music Therapy
- 1018-600 Independent Study in Sacred Music

Individual pursuit of a research topic culminating in a written document of length and scholarly integrity. Arranged with the graduate advisor for music and a course advisor appointed by him, prior to the independent study semester. May cover two semesters; student registers for the one in which the work will be completed.

Written permission required. Special fee: \$100.

4 semester hours each

**0832-603 Seminar in Music Education**

Philosophies of music education and their application to the classroom. Investigation and application of techniques of research as they apply to music education.

3 semester hours

**1006-604 Seminar in Historical Research**

Study of music bibliography, research method and critical analysis. Open to fully matriculated students majoring in music.

3 semester hours

## Physical Education

(For program information, see page 52 of companion volume)

**0835-503 Research Methods in Physical Education**

The theory of experimental, descriptive, historical and philosophical methods of research in physical education: bibliographical sources and references, application of measurement, data collection and analysis and formulation of a research proposal.

Prerequisite: 0835-579 Advanced Measurement and Evaluation in Physical Education.

3 semester hours

**0835-504 Historical Foundations of Physical Education**

Physical education from primitive man to modern times: leaders, past and present; their influences on modern physical education programs; the development of teacher education.

tion in physical education; the development of historical documents.

Prerequisite: An undergraduate course in the history of or introduction to physical education.

3 semester hours

### **0835-506 Physical Education Programs for Secondary Schools**

The factors which must be considered in the development, conduct and revision of physical education programs for secondary schools.

3 semester hours

### **0835-508 Administration and Supervision of Athletics and Coaching**

Underlying principles and desirable practices from the point of view of the administrator and supervisor, and of the person supervised and subjected to administrative policies. Interviewing, observation, conducting conferences and administrative considerations.

3 semester hours

### **0835-521 Coordination and Supervision of Physical Education in the Elementary and Middle School**

Current administrative and organizational patterns in school systems. The role of the coordinator and supervisor in relation to the highest level of teaching and maximum learning. A review of curriculum designs and content.

Prerequisite: A course in physical education for elementary school or a curriculum course.

3 semester hours

### **0835-531 Practicum in Physical Education for the Handicapped**

20 hours including conference time. Approval of the instructor is necessary. The student may elect to take his practicum in a nearby institution or school of the mentally retarded, emotionally disturbed, physically handicapped or sensory handicapped.

Prerequisite: 0835-557 Perceptual Motor Learning in Physical Education.

3 semester hours

### **0835-532 Therapeutic Recreation**

The development, supervision and coordination of therapeutic recreation programs in various types of institutional and community settings.

Prerequisite: Education of the Handicapped or Diagnosis and Correction of Children with Learning Disabilities.

3 semester hours

### **0835-550 Survey of Literature and Trends in Physical Education**

Comprehensive survey of books, periodicals and other teaching materials in the field of physical education; outstanding authors and current leaders in physical education and their basic philosophies.

3 semester hours

### **0835-551 Philosophy of Recreation in School and Community**

Development of recreational philosophies; the modern philosophy in America. Organization of recreation in school and community; the importance of leadership; social and cultural implications; economic, governmental and leisure time influences and study of current practices.

3 semester hours

### **0835-552 Seminar in Current Problems in Athletics (Men and Women)**

The organization, planning and administration of intramural and interscholastic sports programs for men and women. Program development, scheduling, promotion and conduct of the program and personnel selection. Other persistent problems identified by the students will be discussed as will trends in such areas as sports medium, coaching and officiating.

3 semester hours

**0835-553 A Neurological Approach to Motor Learning and Performance**

The psychology of motor behavior, a neuropsychological approach; integrating neuropsychological and behavioral information as a beginning toward understanding motor behavior.

3 semester hours

**0835-554 Orientation in Sports Medicine**

New techniques, materials, modalities and problems related to the prevention and care of athletic injuries; current developments in the field; new conditioning concepts and activities for both the athlete and non-athlete.

Prerequisite: Courses in Kinesiology, Physiology of Exercise and Prevention and Care of Athletic Injuries.

3 semester hours

**0835-555 Scientific Analysis of Sports and Physical Education Movements**

Drawing the free body diagram and calculating moments of force for a complete body motion; special related problems of body impact, equipment impact, the basic laws of mechanics and aerodynamic and fluid-dynamic problems.

3 semester hours

**0835-556 The Psychology of Physical Activity**

Psychological principle and research related to physical activity and educational program situations. Continuing research and psychological evidence utilized to improve physical education methodology.

3 semester hours

**0835-557 Perceptual Motor Learning in Physical Education**

Current theories concerning the inter-relationships of perceptual development and sensory-motor activity; implications for elementary school physical education programs.

Prerequisite: Elementary Physical Education Methods Course.

3 semester hours

**0835-575 Philosophical and Sociological Foundations of Physical Education**

The historical development of modern physical education programs; the sociological factors affecting behavior in modern society applied to teaching and coaching situations.

Prerequisite: A course in the history and principles of physical education.

3 semester hours

**0835-576 Programs in Physical Education for the Elementary School**

The selection of appropriate physical education activities for elementary programs based on principles of growth and development, and psychological and sociological needs. The relationship of physical education to other areas of instruction in the school curriculum, and to the secondary school program.

Prerequisite: Methods course in physical education for elementary school children.

3 semester hours

**0835-577 Administration and Supervision in Physical Education**

Role of the teacher and administrator; interview, visitation, conference and other techniques in reference to student teachers, beginning teachers and experienced teachers. Supervision of both physical education and classroom teachers.

3 semester hours

**0835-579 Advanced Measurement and Evaluation in Physical Education**

New tests and techniques for determining levels of skill, growth and development, and the qualities which contribute to total physical fitness. Advanced techniques for processing data.

Prerequisite: A course in educational statistics.

3 semester hours

**0835-603 Research Seminar in Physical Education**

The principles upon which physical education research is based; studies, programs,



personnel and techniques employed in research. A research project must be presented to the physical education faculty for approval.  
 Prerequisite: 0835-503 Research Methods in Physical Education.  
 semester hours

## Political Science

(For program information, see Page 61 of companion volume)

### 207-501 Public Administration and Public Policy

Literature and developments in the field of public administration from Woodrow Wilson to the current comparative public administration movement. Techniques of administrative management, and personnel and financial administration in the federal bureaucracy.  
 Prerequisite: An undergraduate course in administration or permission of the instructor.  
 semester hours

### 207-502 Modern Political Analysis

Methodologies and orientations that have guided the study and analysis of political phenomena. Utility of methods and the validity of theories are examined by reference to data related to specific political systems. Perspective is comparative and theoretical.  
 Prerequisite: Scope and Methods in Political Science (2207-300) or equivalent, or permission of the instructor. Required for all political science concentration graduate students.

### 207-512 Origin and Development of the U.S. Constitution

The roots and influences that determine the nation's basic political document. The role of the Marshall Court in shaping the Constitution.  
 Prerequisite: A course in American Government or permission of the instructor.  
 semester hours

### 207-521 History of Political Thought

Systematic analysis of the three main patterns of political discourse: a) traditions of the order, b) freedom and society, and c) pre-Socratic thinkers to Herbert Marcuse. Reading concepts of each tradition related to their historical and institutional contexts.  
 Prerequisite: A course in political theory or permission of the instructor.  
 semester hours

### 207-522 Great Britain and the Commonwealth

Origins, membership and working institutions of the British Commonwealth of Nations. Problems of the Commonwealth since 1945, in light of Britain's altered position in international and European affairs.  
 semester hours

### 207-523 The Politics of Developing Areas

Introduction to the field of political stability and change in the world's developing areas. Theoretical and empirical factors that have contributed to the contemporary and continuing search for political modernization in the emerging nation-states of Africa, Asia and Latin America.  
 semester hours

### 207-524 Africa and Asia in World Politics

The position and role of African and Asian nation-states in contemporary international relations; these states' mutual relations; their encounter with the major powers; involvement in general international organizational and diplomatic activity; the domestic political and economic factors that affect or underlie their international interactions.  
 semester hours



**2207-551 Contemporary Constitutional Law**

The Supreme Court's decisions in the area of public law. Critical analysis and in-depth study of the first Ten Amendments, especially as related to the Court's recent decisions.

Prerequisite: A course in Constitutional Law or permission of the instructor.

3 semester hours

**2207-552 The President and Congress**

Organization, structure and powers of the national executive and legislative branches of government. Emphasis on legislative executive relationships, nature and functioning of the legislative powers, respective roles of the President and Congress in the formulation of public policy in a modern democracy.

Prerequisite: A course in American Government or permission of the instructor.

3 semester hours

**2207-553 The Federal Courts**

The federal courts as a political subsystem: court organization, civil and criminal procedures, judicial behavior of federal judges, interactions between federal courts, relations with clientele groups and other branches of the federal government, the flow and content of litigation, and relations with state court systems.

Prerequisite: A course in American Government or State and Local Government or permission of the instructor.

3 semester hours

**2207-554 Seminar in American Political Thought**

The various interpretations of American political thought. Nature and limitations of the liberal ethos underlying the American political and constitutional system; the controversy over the "bias" of American pluralism.

Prerequisite: A course in American Political Thought or permission of the instructor.

3 semester hours

The following Senior-Graduate courses may be elected with permission of the graduate advisor. Course descriptions may be found in the current undergraduate bulletin.

	semester hours
2207-401 Constitutional Law .....	3
2207-402 Government and Politics of Africa .....	3
2207-403 Governments and Politics of the Far East .....	3
2207-404 Governments and Politics of South Asia .....	3
2207-405 Governments and Politics of Latin America .....	3
2207-406 Governments and Politics of the Middle East .....	3
2207-407 Government and Politics of the U.S.S.R. ....	3
2207-408 The Development of Political Thought to Marxism .....	3
2207-409 Modern Political Thought .....	3
2207-411 Black Politics in America .....	3
2207-412 Government and Politics in Communist East Europe .....	3
2207-414 Law in Society .....	3
2207-425 Politics of the Federal Bureaucracy .....	3
2207-430 International Law .....	3

## Psychology

(For program information, see page 54 of companion volume)

**2001-510 Research Methods in Psychology**

Non-laboratory introduction to correlational and experimental methods of research in psychology applied to practical issues. Required of students matriculated in the Educational Psychology program.

NOTE: Students who have recently completed a course in statistics should substitute 2001-550.

3 semester hours

**2001-520 Advanced General Psychology I**

Learning and motivation (first half term), personality and abnormal psychology (second half term). Open to matriculated candidates in General Psychology program only. Must be taken during the first year of the program.

3 semester hours

**2001-521 Advanced General Psychology II**

Sensation and perception (first half term), social psychology (second half term), personality and abnormal psychology (second half term). Open to matriculated candidates in General Psychology program only.

3 semester hours

**2001-538 Ethnopsychology**

See Anthropology 2202-538.

3 semester hours

**2001-540 Remedial Techniques with Emotionally Disturbed Children**

Theory and techniques in helping children who are having difficulty in basic skills.

Prerequisite: Permission of instructor.

3 semester hours

**2001-541 Curriculum Development and Methods of Teaching Inner City Children**

Problems in teaching in the inner city school and the special needs of the inner city child. Innovations in teaching methods related to current research findings. Practicum experience coordinated with course materials.

Prerequisite: 2001-553, 565.

3 semester hours

**2001-542 Workshop in Psychology—Human Sexuality**

Psychologists, health educators, religious leaders, sociologists, biologists, physicians and media specialists lecture and participate in group discussions: sex education in the home, marriage and family relations, genetics, birth control, sex and religion, developmental psychology and sex role, sex and the self-concept.

3 semester hours

**2001-545 Seminar in Emotional Disturbances of Children I**

Research findings in the area of childhood personality disorders and of the techniques and philosophy of their education. Psychodynamics and educational diagnosis and planning for effective placement and program. Open only to matriculated students.

Prerequisite: Permission of the instructor.

3 semester hours

**2001-546 Seminar in Emotional Disturbances of Children II**

Day to day problems of adjustment in the educational setting and the relationships to major theoretical approaches, e.g., behavioral, psychoanalytic and existential. Working with family and parents explored. Integrated with special practicum experiences.

Prerequisite: 2001-545 and 665, or its equivalent and permission of the instructor.

3 semester hours

**2001-548 Sex Education in Communities and Agencies**

Techniques for working with communities and agencies in setting up courses and offering materials for community programs in sex education.

3 semester hours

**2001-549 Psychology of the Adult Learner**

Methods and materials of learning which can be adapted to adult education. Identifying educational needs, understanding problems of the adult learner, overcoming learning difficulties, motivation and other factors affecting learning and counselling procedures. Course individually programmed commensurate with the student's background and professional goals.

3 semester hours

**2001-550 Quantitative and Statistical Methods**

Principles and techniques of data analysis and experimental design in psychology, estimation of parameters, and hypothesis testing. Open only to matriculated students. Prerequisite: Permission of instructor and a qualifying examination in basic statistics. 3 semester hours

**2001-551 Advanced Experimental Psychology**

Laboratory course on contemporary research issues in psychology. An original research project will be required. Recommended for students intending to enter doctoral programs.

Prerequisites: Undergraduate Experimental Psychology and (2001-550) Graduate Statistics.

3 semester hours

**2001-552 General Social Psychology**

Theory, methodology and research findings. Biological basis of social behavior, socialization, attitudes development and change, value systems, group processes and conflict.

Prerequisite: One course in psychology.

3 semester hours

**2001-553 Urban Psychology**

Primary focus and psychological development of the disadvantaged. Biogenetic perspectives, intellectual and language development, motivation and scholastic achievement, personality and the self-concept, environmental intervention.

Prerequisite: One course in psychology.

3 semester hours

**2001-554 The Psychology of Business and Industry**

Application of psychological findings to problems encountered in business, industry and the professions.

3 semester hours

**2001-555 Psychological Aspects of Poverty**

Psychological aspects of a basic poverty culture from a developmental aspect. Child rearing practices, sub-group culture, mores, social psychology and self-perpetuation of certain aspects evaluated in terms of the needs, growth patterns and problems of persons involved in such an environment. Open only to matriculated students.

Prerequisite: 2001-553.

3 semester hours

**2001-560 Advanced Educational Psychology**

Focus on the learner and the learning process in school situations. Motivation, acquisition of skills, ideas and attitudes, technological and other innovations in teaching and learning and evaluation of teacher-learning.

Prerequisite: An introductory graduate course in psychology.

3 semester hours

**2001-561 Developmental Psychology**

Theoretical issues and research findings on mental processes from pre-natal life through adolescence. Open only to matriculated students.

Prerequisite: One course in psychology.

3 semester hours

**2001-562 Dynamics of Human Behavior**

Relationship of social forces to mental health. Environmental factors which contribute towards behavioral and learning pathologies.

3 semester hours

**2001-563 Theories of Learning**

Review of current learning theory and research and the implications for education. Open only to matriculated psychology majors. A section may be opened for other



matriculated students.

Prerequisite: Two courses in psychology or special permission of graduate advisor.

3 semester hours

### **2001-564 Psychology and Education of Physically and Mentally Handicapped Children**

Current practices and problems in the education of children with physical and mental handicaps. Designed for teachers, counselors, supervisors and administrators who work with such children or who wish to prepare for school and community leadership in developing facilities.

Prerequisite: 2001-561.

3 semester hours

### **2001-565 Psychology and Education of Socially and Emotionally Handicapped Children**

Practice and problems in education of socially and emotionally handicapped children.

Prerequisite: 2001-561.

3 semester hours

### **2001-566 Psychology and Education of the Gifted**

Picture of bright and gifted young people in contemporary American life. Various practices involved in education, as well as the psychological characteristics of this group and socio-emotional development.

Prerequisite: 2001-561 or permission of the instructor.

3 semester hours

### **2001-567 Abnormal Psychology**

Models and selected research in psychopathology: psychopathology, physical illness, psychosomatic and somatopsychic disorders, neurosis, psychosis, environmental factors in relation to organic factors.

Prerequisite: 2001-580.

3 semester hours

### **2001-568 Psychology of Group Dynamics**

Theories of group dynamics and illustrative application to industrial, marital, political, interracial and professional life; personal participation by the student in a group interactive process. Open only to matriculated psychology majors.

3 semester hours

### **2001-573 Physiological Psychology**

Investigation of physiological correlates of behavior with emphasis on a sensory apparatus as well as the major neuro-endocrine integrating relationships in the more complex behaviors. Open only to matriculated psychology majors. A section may be opened for other matriculated students.

Prerequisite: One course in Experimental Psychology or special permission of instructor.

3 semester hours

### **2001-574 Individual Intelligence Testing**

Administration, scoring and interpretation of individual intelligence tests. Student is required to use the Stanford-Binet Scale, the Wechsler Intelligence Scale for Children, and the Wechsler Adult Intelligence Scale.

Prerequisite: Approved certification candidacy in the School Psychology program.

3 semester hours

### **2001-575 Projective Techniques**

Basic instruments of projective testing, particularly the Rorschach and Thematic Apperception Test, from the standpoints of basic research and the mechanics of administration and scoring.

Prerequisite: Approved certification candidacy in the School Psychology program.

3 semester hours

### **2001-576 Projective Techniques II**

Moves from the theoretical to the practical application of projective tests. Student



required to administer, score and analyze individual cases. Major emphasis on the Rorschach and Thematic Apperception Test.

Prerequisite: 2001-575.

3 semester hours

### **2001-578 Psychological Tests and Measurements**

Survey of theory, construction and application of psychological tests. Open only to matriculated students.

Prerequisite: 0824-503, 2001-510 or 2001-550.

3 semester hours

### **2001-580 Personality**

Major theories and clinical and experimental findings. Open only to matriculated psychology majors.

Prerequisite: 2001-520 or 561.

3 semester hours

### **2001-581 Motivation**

Nature and development of motives and their role in behavior. Open only to matriculated psychology majors.

Prerequisite: 2001-520.

3 semester hours

### **2001-582 Behavior Modification**

Experimental findings, design of experiments, and practice in the application of learning principles to changing behavior. Student will perform some experiments.

Prerequisite: 2001-563 or equivalent.

3 semester hours

### **2001-583 Sensation and Perception**

Sensory and perceptual processes. Includes: visual, auditory and other stimuli, psychophysics and the development of perceptual abilities and the effects of learning motivation and set on perceptual processes. Open only to matriculated psychology majors.

Prerequisite: 2001-521.

3 semester hours

### **2001-590 Diagnostic Case Studies**

Learning to use diagnostic material and to write up diagnostic findings. The unique value of various diagnostic tools and the criteria for selection in relation to the present school problem.

Prerequisite: Approved candidacy in the School Psychology Certification program 2001-574, 575.

3 semester hours

### **2001-592 Special Diagnostic Techniques**

Designed for students who are already competent in basic individual testing techniques. Specialized tests and techniques; evaluation of handicapped children.

Prerequisite: 2001-574, 575 and permission of the graduate advisor.

3 semester hours

### **2001-593 Clinical Interviewing**

Clinical interviewing under rigid supervision as an essential part of a practicum experience. Diagnostic features of interviewing and inter-personal relationships between the psychologist and the client.

Prerequisite: Permission of the graduate advisor and instructor.

3 semester hours

### **2001-600 Thesis I**

Individual research under faculty direction. Student presents his thesis proposal at

a department colloquium and takes an oral examination upon completion of his thesis.  
4 semester hours

### **2001-641 Perspectives in Human Sexuality**

Specialists lecture and discuss concepts of human sexuality: abortion; human sexuality and the mentally retarded child; world population; myths and fallacies of human sexuality; the community and sex education; sexual aberrations; touch and human sexual response; male and female sexual response; sexual problems of college students; the humanization of obstetrics; current research in sex and sex education.

Prerequisites: Two of the above courses.

3 semester hours

### **2001-660 Seminar in Educational Psychology**

Opportunity to investigate and apply the techniques of research in the psychology field.

Prerequisites: 2001-510 and 560 and matriculation in Psychology.

3 semester hours

### **2001-661 Practicum in School Psychology**

Supervised experience in assessment counseling and consultation procedures. Designed to increase competency in psychological techniques required in school setting.

Prerequisite: Approved certification candidacy in School Psychology program and permission of graduate advisor.

3 semester hours

### **2001-662 School Psychology Externship**

Students serve as apprentice psychologists in cooperating school districts or agencies. A fully certified school psychologist, employed in the cooperating district, or an appropriate clinician and the college supervisor make periodic visits and conduct a series of seminars to be scheduled on campus.

Prerequisites: Approved certification candidacy in School Psychology program and permission of graduate advisor.

3 semester hours

### **2001-663 Independent Study**

Research which is not part of the thesis, readings or field experiences under the supervision of any regular faculty member of the Psychology Department. On one topic during one semester for 1, 2 or 3 semester hours. The student must negotiate an agreement on the planned activities with the instructor prior to registration. Open only to matriculated psychology majors.

Prerequisite: Permission from graduate advisor and instructor.

1 - 3 semester hours

### **2001-664 Practicum in Teaching Emotionally Disturbed Children I**

Experience in teaching seriously and moderately emotionally disturbed children. Open only to matriculated majors in the program for the teaching of emotionally disturbed children.

Prerequisite: Permission of the instructor.

3 semester hours

### **2001-665 Practicum in Teaching Emotionally Disturbed Children II**

Continues the experience described in 2001-664. Open only to matriculated majors in the program for the teaching of emotionally disturbed children.

Prerequisite: Permission of the instructor.

3 semester hours

### **Senior-Graduate Courses**

#### **2001-442 Curriculum and Methods in Sex Education**

Students develop curricula to fit into their individual schools. Methods for implementing, current texts and audio-visual materials.

3 semester hours

**2001-446 Today's Woman**

Eminent women and a few qualified men discuss the history and current status of women in the world: in the arts; black women; how men react to changing roles; the achievement motive in women; Women's Lib; Eastern and Western women; retirement; the witch trials of Salem.

3 semester hours

## **Reading**

(For program information, see page 33 of companion volume.)

**0808-500 The Nature of Reading**

The foundations of reading: the nature of the reading process, readiness, beginning instruction, current practices in the teaching of reading in early childhood and elementary education, a reappraisal of the role of reading in a technological society.

3 semester hours

**0808-501 Techniques of Reading Improvement in the Secondary School**

The improvement of non-clinical reading difficulties in the content subjects. For the subject area teacher and the beginning reading specialist. Secondary school reading needs, and specific suggestions for guiding the slow, average and gifted student in a classroom situation.

3 semester hours

**0808-502 Administration and Supervision of Reading Programs**

The more complex aspects of organizing and administering reading programs: theory and techniques of leadership, program development, organization of in-service programs, developing a budget, methods of evaluation, etc. Essential background for reading specialists to establish or administer a functional secondary school reading program.

3 semester hours

**0808-503 Literature for Adolescents**

Background for the development of recreational reading programs in junior and senior high schools. Literature written for students, as well as literature intended for adults but read widely by adolescents. Criteria for book selection, censorship, role of mass media, minority group identification through books, bibliotherapy, bibliography, and the importance of the librarian.

3 semester hours

**0808-504 Reading Needs of the Adult Learner**

For teachers of out-of-school youth and adults: language learning and related psychological factors; methodology and reading instruction; literature and the reading program and innovations in reading instruction.

3 semester hours

**0808-505 Research Seminar in Reading**

Problems in the field of reading suggested by: educational events and trends of the year, members of the class, and educational movements in New Jersey, the country and the world. Each student will execute and report an individual research effort. Written permission required.

3 semester hours

**0808-506 Reading Resources**

Software, hardware, multi-media and multi-sensory materials available in the schools and in adjunct facilities; philosophic, psychological and academic considerations of reading resources. Video tape demonstrations of materials.

3 semester hours



**0808-509 The Teaching of Communication Skills**

Abilities, limitations and needs of students in speaking, listening, reading and writing. Adaptations in curricula, assignments and procedures to the levels of students in a classroom; remedial measures. Speech, Reading and English Instructors involved in course.

Open to M.A.T. and certification students only.

3 semester hours

**0808-510 Field Experience in Reading**

Agencies and programs dealing with reading. Students observe, participate and report activities of the agencies. For students in long-range research, with limited teaching experience, who need additional field and clinical experience.

Prerequisite: Permission of the advisor to the M.A. program in Reading.

3 semester hours

**0808-511 Case Studies of Reading Difficulties**

Techniques for diagnosing reading difficulties; the most frequently used tests and inventories; the actual testing of a child with reading problems. Group and individual tests, survey and diagnostic tests, and standardized and informal tests: reporting to parents, schools and agencies.

Prerequisite: Previous experience in reading courses and permission of the instructor.

Additional diagnostic hours will be arranged.

3 semester hours

**0808-512 Seminar in Reading Disabilities**

Significant problems in the field of reading disability; historical and emerging models used in reading diagnosis.

3 semester hours

**0808-513 Corrective and Remedial Reading: Part I****0808-514 Corrective and Remedial Reading: Part II**

For advanced students and specialists involved in some aspect of remedial instruction. Part I: Investigation and interpretation of serious reading problems; causes of reading difficulties; techniques of remedial and corrective treatment. Part II: Selection and adaptation of suitable improvement devices, materials and ideas; intensive treatment in a practicum situation. Clients are drawn for the classes in the Reading Laboratory. Additional tutoring hours will be arranged.

Prerequisite: Permission from the instructor.

3 semester hours each

## Sociology

(For program information, see page 62 of companion volume.)

**2208-559 Sociology of Deviance**

The efforts of such people as Lemert, Becker, Morton, Matze and others to develop theories concerning crime, delinquency, mental illness and other issues which can be viewed as social problems.

3 semester hours

**2208-560 Sociological Theory**

The practical and philosophical methods of the seminal sociological theorists, investigated and evaluated in terms of many conceptions of adequate scientific procedure.

3 semester hours

**2208-561 The Construction of Social Theory**

Sociological theory as an artful practice. Theorists, such as Durkheim, Weber, Marx, Freud, Skinner and Merton discussed as courses of action.

3 semester hours



**2208-562 Social Change**

The dynamics of contemporary societies: sacred and secular movements, technological and cultural change, protest and revolution, and 20th century nationalism. The effect of change considered in relation to individuals, groups, institutions and total societies. 3 semester hours

**2208-563 Self and Society**

The relationships between the human individual and his social environment; the formation, maintenance and transformation of self or identity; the structure and processes of small groups; symbolic communication; role theory, cognitive dissonance and inter-group conflict. 3 semester hours

**2208-564 Social Planning**

The many elements and considerations in planning for a community, a state or a nation. The social context of planning; projective techniques; budgets, master plans, development programs and area proposals. The human, the economic, the ecological. Students will be expected to undertake a social planning project. A basic knowledge of statistics and the use of statistical data is desirable. 3 semester hours

**2208-565 Sociology of Youth**

Socialization processes acting upon young people; the role of family, neighborhood, school and community; the effects of failures in these socializing agencies; changing relations among age grades; quantitative studies of the culture of youth with comparisons to other age grades. 3 semester hours

**2208-566 The Metropolitan Community**

The many dimensions of the metropolitan community: human factors, problems and area faces, political difficulties, interaction between the center city and the other parts of the community. Emphasis on New York-New Jersey. 3 semester hours

**2208-568 Social Research Laboratory I**

Elements of sociological methods: study design, hypotheses development, data collection techniques, use of primary and secondary sources, field techniques. Participation in a multi-city field research laboratory project designed and executed jointly with graduate students and faculty of cooperating colleges. The field project is a unique experience because of the diversity of communities investigated, and because of participation with a team of researchers. 3 semester hours

**2208-569 Social Research Laboratory II**

Continuation of Social Research Laboratory I. The elements of method included are: coding techniques, analysis and scientific report writing. 3 semester hours

**2208-570 Independent Projects**

Each student seeking an M.A. degree with an emphasis in Sociology will be guided in the development and execution of an independent project. The faculty advisor will be chosen by mutual agreement of the student and faculty member to guide the project, and advise on the data to be collected in the Social Research Laboratory field project. The student will enroll for Independent Projects in the Fall semester in which he enters the Social Research Laboratory. This enables the student to obtain individual guidance on the selection and design of the independent project. 3-6 semester hours

**2208-571 Seminar: Sociological Inquiry**

Develops competences needed for the critical assessment of sociological literature,

the formulation of productive research problems and the sophisticated pursuit of inquiry. Intensive study of a number of readings dealing with certain crucial areas of sociological concern. Also gives students coming into Sociology concentration without a broad background remedial experience in dealing with advanced concepts, theories and methods.

3 semester hours

#### **2208-572 Selected Problems in Sociology**

The intensive exploration of a general problem in Sociology. Participants contribute research into an aspect of the problem. Formed at the initiative of a department member or in response to student's interest with consent of the instructor.

3 semester hours

#### **2208-573 Sociology of the City Sub-Areas**

The social forces in the inner city and other sub-areas; existing and emerging cultural strengths and positive supportive patterns; problems related to poverty, housing, education, employment, leisure and aesthetics.

3 semester hours

#### **2208-574 Sociology of Cultural and Ethnic Groups**

The major cultural and ethnic groups in American society; relationships among groups; the significance of these relationships to the structure of society. The student will prepare an in-depth report of the group of his choice.

3 semester hours

#### **2208-575 Sociology of Voluntary Membership Institutions**

Descriptive and theoretical analysis of constructive action patterns in leisure and other voluntary membership institutions; structural and functional significance of these behaviors to the American social order.

3 semester hours

#### **2208-576 The Family as an Institution**

The family unit as an institution within society; the family in contemporary American society; the family sociologically examined as an institutional form, a social system in process and a socializing agency.

3 semester hours

#### **2208-577 Sociology of Poverty in the U.S.**

Poverty as a major domestic problem; the causes and effects of social deprivation; historical and contemporary efforts and its solution.

3 semester hours

#### **2208-579 Community Resources and Youth**

Resources for the healthy as well as the deviant child, in the family and neighborhood, in addition to services provided by public and private agencies; relevant federal and state legislation.

## **Spanish**

(For program information, see page 63 of companion volume.)

#### **1105-505 History of the Spanish Language**

The Spanish language from its origins to the present. Phonological, structural and lexical evolution from vulgar Latin, following the process of transformation from its first documentary appearance.

3 semester hours

**Peninsular Area:**

**1105-516 Medieval Spanish Literature to Fifteenth Century**

The outstanding prose and poetry of Spain from the XIth century to the XVth century paying attention to the peculiar three-cultured society of the period.  
3 semester hours

**1105-521 Pre-Renaissance and Pre-Lopista Theater**

Origins and developments of the Spanish Theater to the beginning of the Golden Age; thematic study of major playwrights including Juan del Encina, Lucas Fernandez, Gil Vicente and Torres Naharro.  
3 semester hours

**1105-522 Theater of the Golden Age**

Structural and thematic study of the comedia through readings and discussion of representative plays of the period including Lope, Tirso, Calderón, Alarcón and Moreto.  
3 semester hours

**1105-523 Prose and Poetry of the Golden Age**

Critical readings of the picaresque and pastoral novels, humanistic writings of Luis Vives, Alfonso and Juan Valdés, and Garcíán; textual analysis of the poetry of the Renaissance and Baroque from Garcilaso to Quevedo.  
3 semester hours

**1105-524 Cervantes**

The prose writings and drama of Cervantes focusing on his unique artistic achievement. Readings of *El Quijote*; *Novelas Ejemplares*; *Parsiles y Segismunda*, his comedias, entremeses.  
3 semester hours

**1105-525 La Ilustración and Romanticism**

The erudition of the enlightenment as symbolized by Feijóo, Jovellanos; Neoclassicism; the romantic movement exemplified by Larra, el Duque de Rivas, Espronceda, García Gutiérrez, Zorrilla, Alarcón; costumbrismo.  
3 semester hours

**1105-526 Realism in Spain**

Problems germane to 19th century Spain, as shown by Fermán Caballero, Pereda, Blasco Ibáñez. Particular emphasis upon the works of Pérez Galdós.  
3 semester hours

**1105-533 Contemporary Spanish Theater**

Representative plays from Benavente to Sastre read and analyzed. Critical study of the evolution of theater in light of style, technique and thought of these playwrights.  
3 semester hours

**1105-534 Spanish Prose of the Twentieth Century**

Works of the Generations of 1927 and 1936: Lorca, Casona. Trends in contemporary prose: Buero Vallejo, Sastre, Cela, Zunzunegui, Delibes, Goytisolo, Laforet, Matute and selected younger writers of the present generation.  
3 semester hours

**1105-535 Contemporary Spanish Poetry**

Unamuno, Machado, Jimenez; the poetry of the "Generation of '27" and selective readings of younger poets of today. Emphasis on textual analysis.  
3 semester hours

**Spanish-American Area:**

**1105-540 Colonial Spanish-American Literature**

Indigenous literature such as the Popol Vuh, Rabinal Achi, and nahuatl and que-



chua poetry. The chronicles, the Inca Garcilaso and epic poetry. Sor Juana Inés de la Cruz and Concolorcorvo.  
3 semester hours

**1105-541 Spanish-American Literature of the Nineteenth Century**

The evolution from Neoclassicism and Romanticism to Naturalism and Realism in prose and poetry. Fernández de Lizardi, Heredia, La Avellaneda, Matto de Turner, Sarmiento and the gaucho poets.  
3 semester hours

**1105-542 Spanish-American Novel of the Twentieth Century**

Study of the aesthetic novels of Modernismo, novels of Mexican Revolution, psychological novel and novel of the land and of social reform.  
3 semester hours

**1105-543 Spanish-American Theater of the Twentieth Century**

New trends in the Spanish-American theater—the theater of the absurd and the theater of cruelty, and the fantastic. Readings of such representative playwrights as Emilio Carballido, Carlos Solórzano, Elena Garro, Osvaldo Dragún, Griselda Gambaro.  
3 semester hours

**1105-546 Modernismo in Spanish America**

Critical evaluation of the "Modernista" movement in Spanish-American poetry and prose (1870-1920). The genesis, technique, characteristics and principal writers of the movement.  
3 semester hours

**1105-548 Contemporary Spanish-American Novel**

Critical examination of representative works of contemporary writing in Spanish America. The relation of the Spanish-American novel to the genre in Europe, Spain and North America.  
3 semester hours

**1105-549 Contemporary Spanish-American Short Story**

Study of the tendencies in the contemporary short story from the Post-Modernist period; realism and fantasy; the short story as a social document.  
3 semester hours

**1105-551 Contemporary Spanish-American Poetry**

Individual works of poetry as autonomous linguistic and artistic creations and as part of a general renaissance in culture. Post-modernism, vanguardism and post-vanguardism.  
3 semester hours

**1105-603 Research**

Seminar designed primarily to provide an opportunity for graduate students in foreign languages to investigate and apply techniques of research.  
Prerequisite: Completion of at least 24 semester hours toward the Master of Arts.  
2 semester hours

## Speech and Theater

(For program information, see page 66 of companion volume.)

**0603-580 Internship in Public Media Arts**

Off campus practicum assignments: radio and television broadcasting facilities and other learning sites. Broad, balanced and locally supervised experience, by arrangement. Open to majors. Application through the department prior to registration.  
3-7 semester hours



**0603-581 The Broadcast Media and Mass Culture**

Influences and effects of the broadcast media on society; policy decisions and the influence of the broadcast media as conveyors of information and stimulus for change. Open to all graduate students.

3 semester hours

**0603-582 Techniques of Broadcast Communication**

Techniques and ethics in the production of informative, entertainment, persuasive and public relations material for mass public consumption. Open to all graduate students.

3 semester hours

**0603-600 Thesis (see 1506-600)**

**1007-504 Contemporary Theater Practice**

The status and practices in today's professional theater: writing, playing, staging and producing problems and trends of current theatrical fare. Supplemented by theatrical personnel and visits to professional producing groups in the metropolitan area. Open to all graduate students.

3 semester hours

**1007-507 Seminar in Dramatic Production**

Advanced play production students pursue projects to meet individual needs in acting, directing, technical theater or other production aspects. Open to majors.

3 semester hours

**1007-508 Internship in Dramatic Production**

Practical experience in dramatic production under supervision of staff member of professional, semi-professional, community or educational theater, on or off campus. Student assists director, designer, crew chief or technical supervisor. Contracts drawn by student, college sponsor and off-campus supervisor. Open to majors.

Application through department before registration.

3-7 semester hours

**1007-513 Modern and Contemporary Theater History**

Theatrical history associated with Western culture from 1890 to the present; the contemporary theatrical scene and its direct heritage. Some attention to American theater but major emphasis on British and Continental developments. Open to all graduate students with a background in dramatic literature.

3 semester hours

**1007-514 Non-Western Drama and Theater**

Theatrical forms and dramatic literature of non-Western cultures in historical and contemporary context: China, Japan, India, Southeast Asia, Africa. Theatrical practices in staging various dramatic forms. Open to all graduate students with a background in dramatic literature or Asian studies.

3 semester hours

**1007-517 Theater Criticism**

Standards and values, both personal and historical, by which plays are judged. Student-written critiques of how theater communicates in all of its various facets. Mandatory attendance at community and professional productions. Open to all graduate students with a background in dramatic literature or theater production.

3 semester hours

**1007-525 Advanced Acting Workshop**

Challenging roles, problems of style and control, as well as extensive independent study. Open to majors or permission of instructor.

3 semester hours

**1007-535 Advanced Directing Workshop**

Directing repertory and period plays. Preparation for thesis production. When possible, the student will produce a full-length play and complete a production notebook. Open to majors or permission of instructor.

3 semester hours

**1007-545 Scenic Design I: The Legitimate Theater**

Stage design as related to the play, director and audience; styles of design, perspective sketch and stage model in planning stage setting. Stage construction techniques used to demonstrate the necessity of scene design in planning stage production. Open to majors.

3 semester hours

**1007-546 Scenic Design II: The Performing Arts**

Design problems inherent in musical comedy, opera and dance. Physical qualities of space, arena and proscenium staging and the challenges of each. Projects will involve both lighting and scenic design. Open to graduate students with a background in the performing arts.

3 semester hours

**1007-554 Stage Lighting Design**

Introduction to light from pragmatic and aesthetic points of view: functions and qualities as a design media; types of control and instrumentation available to designer. Development of several lighting designs. Open to majors or permission of instructor.

3 semester hours

**1007-555 Advanced Problems in Technical Production**

Physical resources available to technician. Exploration of new materials and techniques as well as extensive work in standard techniques. Knowledge of drafting techniques helpful. Open to majors or permission of instructor.

3 semester hours

**1007-575 Seminar in Costume Design and Construction**

Costume as one visual element of design in the theater. Research procedure, design theory, construction techniques, use of materials. Open to majors or permission of instructor.

3 semester hours

**1007-580 Theater Management**

The theater as a business enterprise: production units; box office procedures; standard contractual arrangements; unions and their regulations; subscription management. Manager as a community relations specialist; publicity; the theater as a community resource. Open to graduate students with a background in performing arts.

3 semester hours

**1007-600 Thesis (see 1506-600)****1506-501 Survey of Research Methods**

Research methods relating to rhetorical theory, public address, interpersonal communication, theater history, dramatic production and contemporary theatrical idiom. Historical, critical, descriptive, quantitative and experimental models and methodologies. Individual student needs and interests considered. Open to majors.

3 semester hours

**1506-503 Advanced Voice and Speech Improvement**

To refine the voice and diction patterns of the advanced student. Techniques of evaluating and improving their own and others' in a practical setting. Open to majors or permission of instructor.

3 semester hours

**1506-504 Advanced Applied Phonetic Study**

The phonetic approach to erasing and acquiring typical and atypical American and foreign speech sounds and patterns for stage, radio, TV and classroom. Open to majors.

3 semester hours

**1506-509 Special Problems in Speech and Theater**

Individual problems in theater, speech and mass communication; reports, papers, panel discussion and experimentation. Open to majors or permission of instructor.

3 semester hours

**1506-511 Revolutionary Rhetoric**

The "revolutionary" speaking of the last decade. Civil rights, university reform and war protest speakers in historical perspective. The student, as rhetorical critic, evaluating speaker and audience, will assess the ultimate effects of revolutionary speaking. Open to all graduate students.

3 semester hours

**1506-519 Seminar in Rhetorical Criticism**

Functions, types and problems of rhetorical criticisms. Comparison of Aristotelian and non-Aristotelian approaches. Open to all graduate students.

3 semester hours

**1506-521 Competitive Forensics**

Techniques for directing and coaching intra- and interscholastic forensic events. Discussion, debate, parliamentary congresses; speaking, reading and performing contests; local, regional and national tournament administration; scheduling, rules, publicity, housing and awards. Open to all graduate students.

3 semester hours

**1506-533 Lecture and Lecture Recital**

Study of professional work on public platform climaxed by lecture or recital of a professional nature. Open to majors.

1 semester hour

**1506-536 Seminar in Persuasion**

Critical examination of psychological, sociological and cultural dimensions of persuasive discourse. Open to majors or permission of instructor.

3 semester hours

**1506-560 Internship in Oral Communication**

Off-campus practicum assignments range from serving on campaign speaker's or public speaker's speech staff to coaching students and/or conducting forensic tournaments. Broad, balanced and locally supervised experience, by arrangement. Open to majors. Application through the department prior to registration.

3-7 semester hours

**1506-565 Advanced Oral Interpretation**

Techniques in interpretation of poetry and prose; analysis and presentation of types of literary material (short story, ballad, narrative sonnet, etc.) for use in classroom and special programs. Open to all graduate students.

3 semester hours

**1506-600 Thesis**

Individual research or creative project selected under advisement of a faculty committee. An oral exam follows the project; student should register for the semester in which work will be completed. Open to majors.

Written permission for registration from the graduate advisor is required.

4 semester hours



## Student Personnel Services

(For program information, see page 68 of companion volume.)

### **0826-560 Medical Problems in Education**

Role of the educator in relation to the following subject areas: childhood, chronic and contagious diseases; nutritional problems; narcotics and psycho-socio-medical pathologies. Impact of health problems on the family, school and community.

3 semester hours

### **0826-562 Social Case Work I**

Principles in social case work as they relate to the school setting. Theoretical development of social work norms and the function and role of the school social worker (visiting teacher). Cases developed by social workers will be studied and school experiences provided.

3 semester hours

### **0826-565 The Role of the School Social Worker**

Historical development as found in the literature; an examination of the contemporary scene as social work relates to other emphasis in the helping professions and some original investigations in the area of role theory, utilizing the "Role Analysis Paradigm."

3 semester hours

### **0826-570 Counseling Adults**

Techniques; identification of problem areas common to students of college age, to parents and non-school adults. Case studies with ample opportunity for the student to engage in supervised practice.

Prerequisite: Principles of Guidance and Counseling (0826-580).

3 semester hours

### **0826-579 The Use of Tests in Counseling**

Using test results; interpreting test results to teachers, administrators, parents and students. Statistical analysis for research and program development. Laboratory techniques in administering, scoring and interpreting tests. Planning of the testing program for the elementary and secondary school.

Prerequisite: Testing and Evaluation (0824-578) or equivalent.

3 semester hours

### **0826-580 Principles of Guidance and Counseling**

Philosophy of guidance, history of the guidance movement, need for guidance presented by children and adolescents. Methods of gathering useful data, school records, exploratory activities, tests, inventories, the case study approach, occupational information and occupational data and general methods of guidance with special stress on interviewing and counseling of students.

3 semester hours

### **0826-581 Community Resources for Guidance**

Various agencies, industries and institutions available in the surrounding communities for use in guiding students. Location and nature of these facilities and techniques for arranging student interviews and visits. Class discussion and personal research supplemented by field trips.

Prerequisite: Principles of Guidance and Counseling (0826-580).

3 semester hours

### **0826-582 Vocational Guidance and Occupational Information**

Principles of vocational education. Counseling high school youth who want pre-employment training; counseling out-of-school groups who are adjusting to occupational life. Guidance techniques for job preparation and readjustment; matching educational and personal abilities to job specifications; the effects of social legislation on the em-



ployment of youths; determining occupational needs and changes.

Prerequisite: Principles of Guidance and Counseling (0826-580).

2 semester hours

**0826-583 Educational Guidance**

Facilities for education after high school graduation, further training for dropouts and the academic problems of students while in school. Brief survey of colleges and college admission procedures.

Prerequisite: Principles of Guidance and Counseling (0826-580).

3 semester hours

**0826-585 Group Guidance and Counseling Activities**

Techniques for helping individual pupils and for using group activities, including role-playing. Group activities include home rooms, activity periods, occupation courses, student field trips, placement follow-ups, college night and career days.

Prerequisite: Principles of Guidance and Counseling (0826-580).

3 semester hours

**0826-586 Elementary School Guidance Services**

Guidance services that may be offered in grades kindergarten through six. Established in the public schools, the guidance program envisions supervision through graduation at grade twelve.

Prerequisite: Principles of Guidance and Counseling (0826-580).

3 semester hours

**0826-587 Administration and Supervision of Guidance Programs**

Developing and administering programs of student registration theory and techniques of scheduling and supervisory responsibilities of the director of guidance. Coordinating guidance activities in a multi-school district. Examination of current guidance practices; formation of proposals for improvement in programs where the student is working as a counselor and/or director.

Prerequisite: Principles of Guidance and Counseling (0826-580) and 6 semester hours in the Personnel Services Program.

3 semester hours

**0826-588 Techniques of Interviewing and Counseling**

Directive, non-directive, client-centered and role-playing approaches to individual students, as well as the case study method. Demonstration and practice with these techniques implemented with tape recordings, one way screens and closed circuit television.

Prerequisite: Principles of Guidance and Counseling (0826-580).

2 semester hours

**0826-589 Student Personnel Services in Higher Education**

Personal counseling, financial aid, dormitory management, health program, student activities and social programs; course selection, job placement, college admission and academic retention, administration and supervision of the program.

Prerequisite: Principles of Guidance and Counseling (0826-580).

3 semester hours

**0826-650 Research Seminar and Thesis Writing**

During the time that the student is preparing the research document he should enroll in 0826-650, Thesis Supervision. This entitles him to faculty advisement and conferences. If the student does not complete the document during the semester in which he has enrolled for 0826-650, he is required to re-enroll in 0826-650 each semester (without credit) until the document is completed.

Prerequisite: Approval of advisor.

3 semester hours

**0826-654 Field Work and Practicum in Guidance and Counseling**

Experience in agencies actually dealing with guidance problems. Observe and par-

ticipate in activities of the assigned agency and write full accounts of observations and experiences. Some time is spent in discussing and evaluating experiences and relating them to the literature of the subject.

Prerequisite: Principles of Guidance and Counseling (0826-580).

3 semester hours

#### **0826-655 Field Work and Practicum in Social Work**

Diagnostic skills, interviewing techniques, case recording, individual and group therapy and team approach. Under guidance of a certified, experienced school social worker, the student will develop an understanding of the use of community resources. Observe special services (school social worker, psychologist, psychiatrist, speech or reading specialist and teacher) in action as a therapeutic plan is developed for the school pupil.

Prerequisite: Principles of Guidance and Counseling (0826-580) and 12 semester hours in the Personnel Services Program.

3 semester hours

#### **0826-670 Techniques of Evaluation**

Provides a background in the design, use and interpretation of statistical evidence.

Prerequisite: Approval of advisor.

3 semester hours

#### **0826-680 The Student Personnel Services Team**

Establishing the philosophy, membership, roles and functions of the various services that compose the Personnel Services team.

Prerequisite: Approval of advisor.

3 semester hours

## **Human Organizational Processes**

(For program information, see page 68 of companion volume.)

#### **0842-564 Dynamics of Group Process**

A laboratory-based course for the development of group skills and understandings. Focus on experimental learning and personal growth. Readings in human inter-action theory related to actual group participation. The function of groups within large organizations.

3 semester hours

#### **0842-565 Consultation in Organizational Development**

A laboratory-based course which focuses on the role of the organizational consultant; planning, providing help and evaluating activities; diagnostic and behavioral skills. For those considering consultation work in business, industry, government, penology, education and community organizations.

Prerequisite: 0842-564 or permission of the instructor.

3 semester hours

#### **0842-566 Field Work in Group Leadership**

On-the-job training for group workers to sharpen diagnostic and behavioral skills. Students join an on-going task-centered group as member or leader, and make a problem diagnosis, a procedural plan and a method of evaluation. In-progress and final reports will be discussed.

3 semester hours

#### **0842-567 Research Seminar in Group Processes**

Students develop, carry out and evaluate a research project in small group processes. They work singly or in groups to investigate the application of group work to their

major fields of interest.

Prerequisites: 0842-564

3 semester hours

#### **0842-568 Theoretical Constructs in Social Group Interaction**

Problems and current practices in small group interaction, social restructuring and cultural encounter. Survey of literature on the influence of interaction on small group behaviors, learning theories, leadership, decision making, social reconstruction, value conflict and perception of self and others.

3 semester hours

#### **0842-569 Techniques and Exercises in Group Dynamics**

A structured experiential course: participating in and evaluating activities and exercises of individuals who work with small groups. Students will modify old designs and create new ones as they compile their own ideas, forms and exercises.

Prerequisite: 0842-564 or equivalent and approval of the instructor.

3 semester hours

#### **0842-661 Group Development Laboratory I**

#### **0842-662 Group Development Laboratory II**

Seminar experience as a core for advanced study in organizational leadership. Group participation and periodic opportunities to examine the problems of a group and the effects of individual behaviors in group development. Methods of applying this experience to the improvement of communication in client organizations.

Prerequisite: 0842-564 and approval of the instructor.

3 semester hours each

The following 400 level Senior-Graduate courses are available as electives with permission of the graduate advisor. Course descriptions may be found in the current undergraduate bulletin.

	semester hours
0842-430 Interaction Analysis .....	3
0842-431 Individual and Group Dynamics .....	3

## **Teaching**

(For program information, see page 69 of companion volume.)

#### **0829-A400 Teacher, School and Society**

An introduction to the field of education, overview of selected areas in which the professional educator should acquire knowledge and understanding, such as: the school as a social and legal system, the nature and function of the teacher within these systems, and the student—his expectations and impact upon the system.

3 semester hours

#### **0829-A410 Field Experiences in Education**

30 to 90 hours as a teacher's assistant in a public school, performing many of the functions of a teacher, working with individual students and small groups, preparing learning materials, scoring examinations, etc. Experiences may be in more than one school.

1-3 semester hours

#### **0829-A411 Supervised Student Teaching**

10-16 weeks in a public school, cooperating with a teacher, team or department appropriate to the student's teaching field, taken concurrently with Seminar: Theory



in the Classroom. Visiting professors observe the student in interaction with pupils and confer with the student and cooperating faculty. Not for graduate credit.

Prerequisite: 0829-A400 and approval of advisor.

8 semester hours

#### **0829-A412 Field Work in Urban Education**

In addition to Supervised Teaching; includes special tutoring programs, street academies, summer school programs, and work in the school system during the regular school year. Students will be expected to participate in seminars or individual conferences, and to prepare a report on their experiences. 30 hours per semester field work for each semester hour of credit.

1-3 semester hours

#### **0829-A413 Field Work in Community Agencies**

Provides a general understanding of the objectives, scope and activities of one or more agencies in the fields related to education. Students participate in seminars or individual conferences, and prepare a report on their experiences. 30 hours per semester field work for each semester hours of credit.

1-3 semester hours

#### **0829-A414 In-Service Supervised Teaching I**

For the teacher employed under a substandard teaching certificate. Taken concurrently with Seminar: Theory in the Classroom. Joint supervision by school district and college personnel. Visiting professor observes the student in interaction with pupils and confers with the student and his local supervisor. Not for graduate credit.

Prerequisite: 0829-A400, approval of advisor, and agreement with the Superintendent of Schools.

4 semester hours

#### **0829-A415 In-Service Supervised Teaching II**

Continuation of In-Service Supervised Teaching I; the corequisite seminar is replaced by a series of special in-service conferences included in the course. Not for graduate credit.

Prerequisite: 0829-A414.

4 semester hours

#### **0829-A420 Instructional Innovations**

The rapidly developing practices in teaching; organized on a team teaching basis to consider new ways of organizing students, staff, curriculum, time and space, and to investigate such techniques as independent study, group dynamics, programmed instruction, student evaluation, flexible-modular patterns of organization.

3 semester hours

#### **0829-A421 Seminar: Problems of a Classroom Teacher**

The student reviews, evaluates and relates his teacher aide and student teaching experiences to his initial employment as a teacher. Analyzing strengths and weaknesses and making adaptations in techniques and practices. Taken concurrently with or immediately after his field experiences.

1-3 semester hours

#### **0829-A422 Teaching the Block-of-Time Program**

The philosophical and psychological bases; methodological problems involved in teaching the program and the development of resource units for use at different levels. Open only to students who have a major-minor combination of English and social studies.

3 semester hours

#### **0829-A423 Teaching in the Urban Schools**

The socio-economic setting of the inner-city schools; the inner-city school studied



through its students, administrators, teachers and special personnel (guidance, medical staff, remedial work specialists). Specific problems brought to the school by the inner-city student which reflect his mores and family patterns; recent theories, practices and programs for changes in teaching in urban schools, innovations in funding and their impact on urban education, ideas for reorganization of the schools and the school systems, exploration of techniques for re-orienting experienced urban teachers. Visits to urban schools and agencies provide background experience and understanding.

3 semester hours

#### **0829-A425 Curriculum and Instruction for Affective Education**

The place of and approaches to feeling, emotion, valuing, concern and process phenomena in the curriculum. Theory and practice of curricular design and instruction for affective education; application and evaluation; development of original models. Micro-teaching, simulation, workshops and representative affective classroom procedures.

3 semester hours

#### **0829-A430 The Elementary School Curriculum**

Practical and theoretical understanding of such topics as: characteristics of young learners; the source, nature and function of curriculum goals; types of elementary school administrative organization; the relationship between curricular patterns and classroom procedures, and the modern subject matter areas of the elementary school. Audio-visual aids, testing and reporting to parents may be included. Field trips and simulation materials are used. This course cannot be used for graduate credit.

3 semester hours

#### **0829-A431 Junior High and Middle School Curriculum**

Current movements in the programs of intermediate schools. Representative practices related to the rationale of the junior high school; innovations in middle schools. Students develop courses of study or units of work.

3 semester hours

#### **0829-A450 Teaching Strategies to Develop Critical Thinking, Part I**

The strategies associated with a set of thinking skills identified by Dr. Hilda Taba. These thinking tasks are generic to all content areas, appropriate for all grade levels, and essential to the development of self-directed, higher-level thinking. Laboratory application helps teachers apply the skills and theory to an inductive and process-oriented curriculum in a regular classroom setting.

4 semester hours

#### **0829-A451 Teaching Strategies to Develop Critical Thinking, Part II**

Continuation of 0829-A450.

Prerequisite: 0829-A450.

4 semester hours

#### **0829-A516 Strategies for Educational Change**

Developing practical strategies for the achievement of desired educational change in field settings. Principles and concepts from the fields of sociology, social psychology, educational administration and curriculum applied to education. Developing change strategies for particular field settings.

3 semester hours

#### **0829-A521 Seminar: Theory in the Classroom**

Taken in conjunction with Professional Teaching Semester, Supervised Student Teaching I, Supervised Student Teaching or Internship in Teaching I. Analysis of the student's initial teaching experience in a small setting. Comparison of classroom situations with course work reveals ways to apply theory to practice. Sharing problems and solutions to build competencies and confidence. Includes a professional improvement project.

3 semester hours

**0829-A522 Innovations in Teaching**

New media and strategies, novel teaching roles, individualized instructional programs, classroom group dynamics and experimental school organizations. Team teaching utilized where feasible. The student prepares an innovation proposal.

Prerequisite: At least one year of teaching experience.

3 semester hours

**0829-A523 Education in the Inner City**

The urban school through the eyes of city youngsters, teachers and other educational personnel. Influences of social and economic forces: poverty, family patterns, ghetto mores, urban unrest, emergent minority leadership, school funding patterns, community agencies and school traditions. Evaluation of federal and other projects, innovative teaching and local action. Student prepares a proposal for improvement of an urban school situation.

3 semester hours

**0829-A530 Principles of Curriculum Development**

The curriculum as conceived by professionals and the impact of the supporting society. Selecting content; its sequential development in relation to individual differences as they relate to values in a dynamic society. Guiding needed curriculum changes wisely.

Prerequisite: At least one and one-half years of successful teaching experience under certification.

3 semester hours

**0829-A531 Curriculum Construction in the Elementary School**

Reviewing and bringing up to date basic curriculum development concepts; curriculum construction in a modern elementary school; creating an elementary school curriculum in a specific field for one or more grade levels.

Prerequisite: 0829-A530.

3 semester hours

**0829-A532 Middle School Curriculum and Organization**

Emerging curriculum of the rapidly developing middle school. Organization of pupils, instruction, media and facilities. Recent social changes and educational innovations; practices in typical middle schools; developing instructional strategies.

Prerequisite: 0829-A530.

3 semester hours

**0829-A533 Curriculum Construction in the Secondary School**

Secondary school curriculum and the needs of a changing civilization. Effective means of curriculum construction.

Prerequisite: 0829-A530.

3 semester hours

**0829-A534 Strategies for Curriculum Change**

Achieving desired educational change in field settings. Principles and concepts from sociology, social psychology, educational administration and curriculum applied to education. Opportunity to develop change strategies for particular field settings.

Prerequisite: One and one-half years of successful teaching experience under certification.

3 semester hours

**0829-A535 Designing Curriculum for Affective Education**

The design and implementation of curricular approaches to feeling, emotion and process phenomena in the school; evolution, theory and current practice experientially evaluated. Workshops to devise original design models, and simulative and micro-teaching sessions to demonstrate competence in their application.

Prerequisites: 0829-A530, 65-200.

3 semester hours

**0829-A605 Practicum in Teaching**

The student initiates and completes an independent study project within the fields of curriculum and instruction.

Prerequisite: Approval of advisor.

5 semester hours

**0829-A635 Research Seminar in Curriculum Construction**

Individual advanced work in curriculum construction. Admission upon approval of the instructor.

Prerequisites: 0829-A530 and A531 or A532 and A533.

3 semester hours

## **Educational Foundations and Comparative Studies**

(For program information, see page 69 "Teaching" of companion volume.)

**0821-520 Educational Thought to the Eighteenth Century**

Philosophic assumptions behind various educational theories from Classical to Modern schools of thought. Realism, Idealism, Experimentalism, Scholasticism and other schools; Plato, Aristotle, Aquinas, Descartes, Rousseau and others.

3 semester hours

**0821-521 Contemporary Educational Thought**

Critical evaluations of schools of philosophy which have contributed to educational thought in the 20th century; Pragmatism, Progressivism, Existentialism, Perennialism, Reconstructionism and others. Current trends and problems; principles underlying educational theory and practice.

3 semester hours

**0821-523 Existentialism in Education**

Existential motifs in Sartre, Kierkegaard, Nietzsche, Heidegger, Buber and Camus with emphasis on the implications for educational aims, curricula, methods and values. Works of Morris, Kneller, Greene and Happer, who have begun to define Existentialism for education today.

3 semester hours

**0821-525 Ethical Problems of Educational Practice**

Value formation in society and in today's schools: "Who should be taught in the schools?", "Can values be taught to children?", "What ideals are important for boys and girls?" and "What should a student's role or position in school be?"

3 semester hours

**0821-540 Social Forces and Education**

Examination of various facets of society that have impact on the educational system: economic, political, social, ethnic and religious forces as they relate to problems of educational systems. Field studies included.

3 semester hours

**0821-544 Social Class and Education**

Social, ethnic and racial customs as they relate to class structure and educational values. Traditions of various social groups; effect on American education; psychological patterns evolving from them.

3 semester hours

**0821-545 Political Forces and Education**

Political structure and its influence on the educational system and the ability of education to influence the political system. Specific roles played by education and educational



leaders in government bodies at various levels.

3 semester hours

**0821-560 Comparative Studies of Educational Systems**

Relationship between social structure and the types of educational institutions; the struggle for change in industrialized societies; efforts for educational change in developing areas. Latin America, Germany, England, France, Soviet Union, Israel, India, China, Japan and selected areas of tropical Africa.

3 semester hours

**0821-561 Education in Western Europe**

Variations in educational thinking and practices in selected countries. Factors influencing educational developments such as political, ideological, socio-economic forces and the relationship between school systems and their cultural contexts.

3 semester hours

**0821-564 Education in Latin America**

The basic social and economic structure and how it relates to secondary school and university systems.

3 semester hours

The following 400 level Senior-Graduate courses are available as electives with special permission of the graduate advisor. Course descriptions may be found in the current undergraduate bulletin

	semester hours
0821-440 Sociological Foundations of Education .....	3
0821-445 Puerto Rican Children in Mainland Schools .....	3

## **Doctoral Program in Educational Administration With A Major Emphasis in Community Education**

A cooperative program exists among Montclair State College, Worcester State College, the University of Vermont and the University of Connecticut for students who wish to pursue a Doctor of Philosophy degree in educational administration with a major emphasis in community education.

This consortium arrangement permits the taking of course work at the sending institutions which can then be transferred to the granting institution, the University of Connecticut.

At present, under ordinary conditions, the student should anticipate pursuing approximately 18 semester hours at the University of Connecticut plus completion of comprehensive examinations in three major areas, one year residence and a doctoral dissertation.

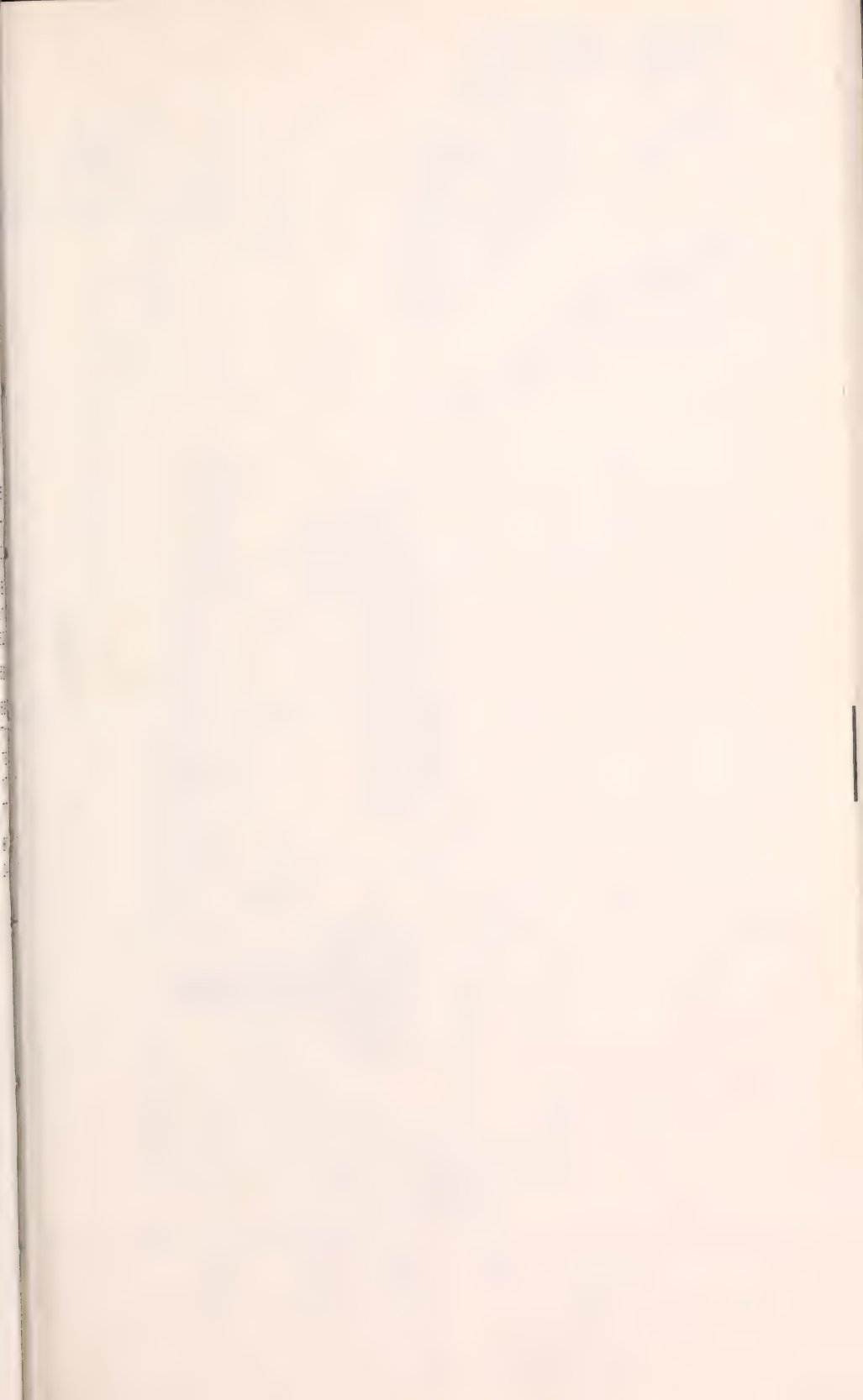
In each instance, the sending institution will do the initial screening and recommend candidates to the University of Connecticut for further consideration.

Candidates who are interested in exploring this degree program can receive further information and details about procedures from the Office of the Dean, School of Educational and Community Services, Montclair State College, Upper Montclair, New Jersey 07043.



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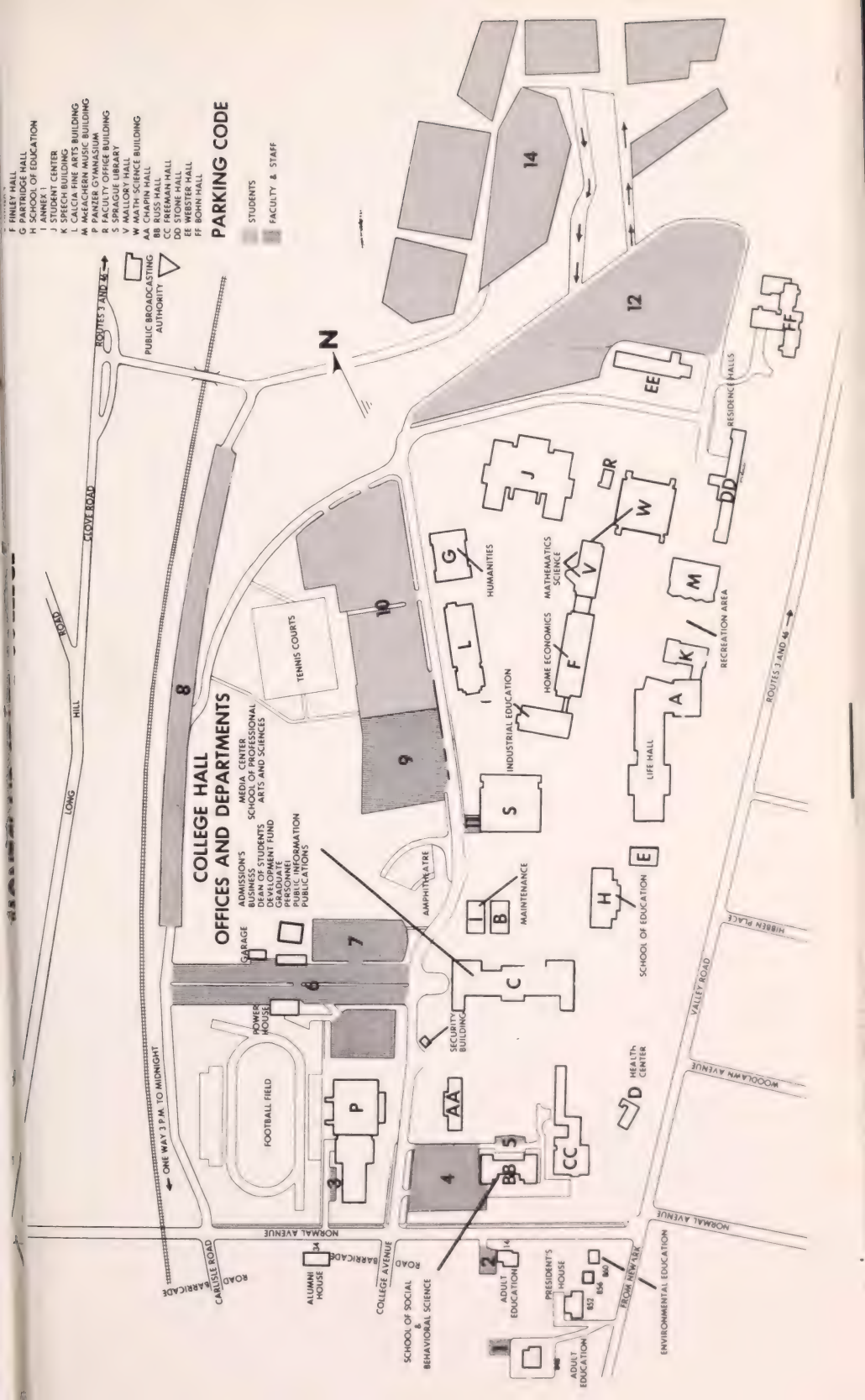




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 H SCHOOL OF EDUCATION  
 I ANNEX I CENTER  
 J ANNEX J CENTER  
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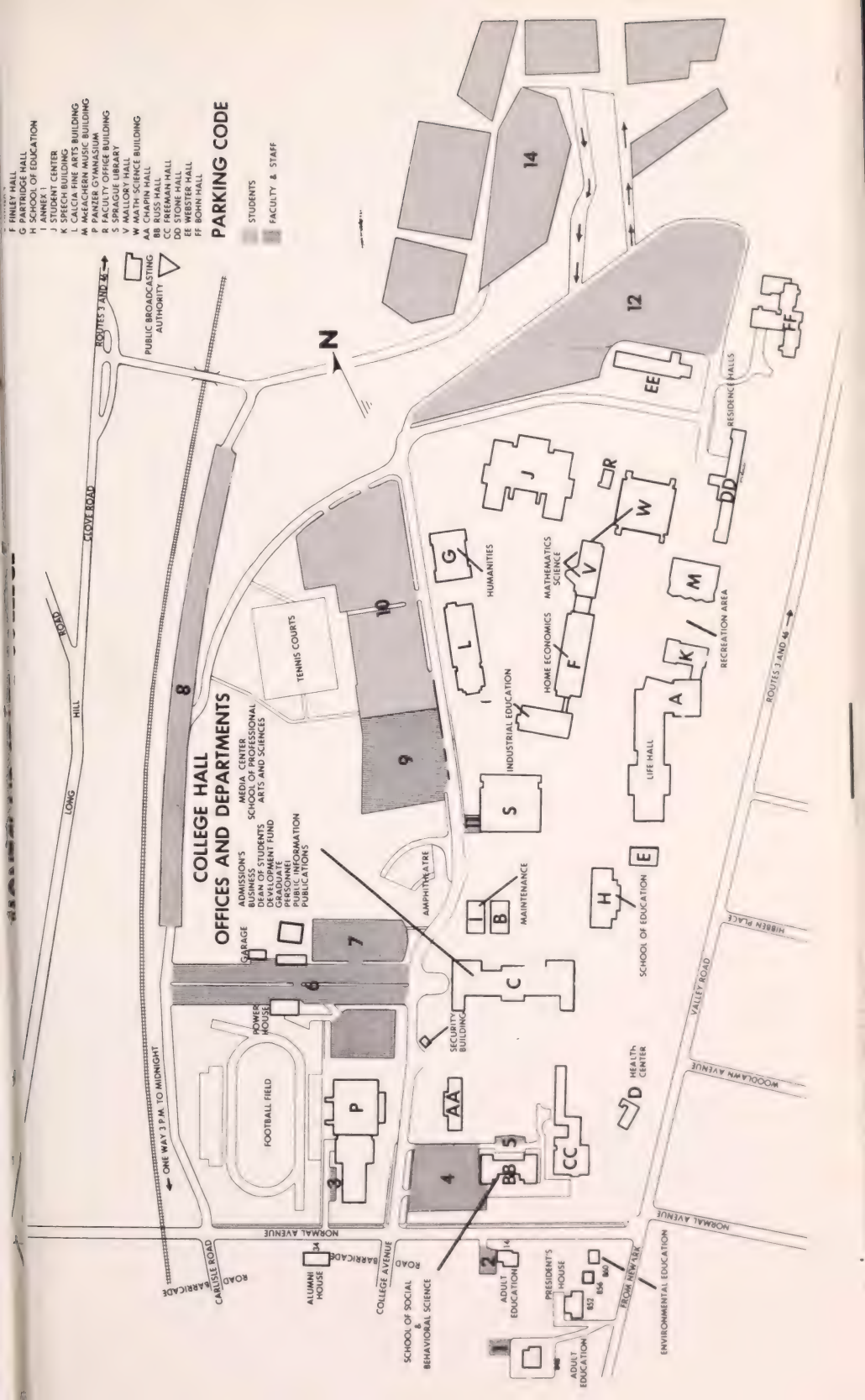
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1974/1976 Graduate Programs Issue

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Upper Montclair, N. J. 07043



graduate program 1974-76

ntclair State College

Upper





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## ABOUT THE COLLEGE

Montclair State College is a publicly-supported institution of higher learning, offering programs on the master's and bachelor's degree levels to 13,300 students.

The College, founded in 1908 as a Normal School, now includes six undergraduate schools and a Division of Graduate Studies. Graduate courses were approved by the State Board of Education in 1932.

Although the College is large, its individual schools and programs are small enough to ensure intimate instruction and advisement for each student. In keeping with a liberal tradition dating from its founding, the College is open to all qualified students without restriction as to religion, national or racial origins, age or sex.

### Faculty

A full- and part-time faculty of 644 men and women teach more than 3000\* different courses. Through extensive summer and evening programs, educational opportunities are opened to ambitious students who cannot give full time to their studies.

### History and governance

From 1908 through 1927, the College was a Normal School, oriented to the education of public school teachers. In 1927, it became the State Teachers College at Montclair to prepare secondary-school teachers.

In July, 1958, the College assumed its present name, Montclair State College, to reflect its stress on traditional graduate and undergraduate education in the liberal arts and sciences. Since that time, the College has placed increasingly greater emphasis on the training of future scholars, government and business administrators and managers, lawyers, physicians, dentists, scientists and researchers, journalists and writers, while maintaining its traditional excellence in secondary-school teacher education.

The New Jersey Higher Education Act of 1966 transferred governance of the College from the State Department of Education to the College's own Board of Trustees. This Board consists of nine citizens of New Jersey, appointed by the Governor of the State on the recommendation of the State Board of Higher Education, and the president of the College, *ex officio*. This change in governance, which took effect July 1, 1967, gave the College increased independence in the management of its own programs.

### Goals of the College

Since the establishment of the College's Board of Trustees, the program offerings have been constantly expanded. Today, as a result of extensive programs on graduate and undergraduate levels, the College is a multi-purpose institution, offering a broad range of courses and programs to students with varying needs, interests and career aims.

### Location

The College is located on a 200-acre campus in Upper Montclair, New Jersey, an attractive suburban community fourteen miles from midtown Manhattan.

As a result of the College's proximity to New York City, the students at Mont-

\*All sections.



clair State enjoy an opportunity to enrich their education through participation in the cultural, social and educational life of the metropolis of which we are part.

### **Financial Support**

The College derives its primary income from the State of New Jersey. This basic income is supplemented by grants from government agencies and private foundations, and gifts from friends, alumni, corporations and other private philanthropic sources.

### **Accreditation and Memberships**

The College is fully accredited by the Middle States Association of Colleges and Secondary Schools. In addition, the National Council for the Accreditation of Teacher Education has granted the College full accreditation for the preparation of elementary and secondary school teachers and school service personnel.

The College is a member of the Council of Graduate Schools in the United States, the American Association of State Colleges and Universities, the American Council of Education, the New Jersey Association of Colleges and Universities and the American Association of Colleges for Teacher Education. Women graduates of the College are accepted for membership in the American Association of University Women.





## **College Facilities and Educational Services**

### **Library**

The Harry A. Sprague Library is an attractive, modern, air-conditioned building located centrally on the campus. This important campus facility is named in honor of Harry A. Sprague, who served as president of Montclair State College from 1927 to 1951. The library includes study tables, individual study desks, group conference rooms, faculty carrels and lounge areas. Smoking lounges are provided on the ground floor where a student typing room is also located.

A knowledgeable staff of librarians is on hand to guide students in the use of the library's substantial and constantly expanding collection of books and periodicals. Liberal lending regulations are designed to facilitate the students' access to this collection. Xerox copying machines are available for student use at nominal cost. Periodicals, books and documents in microtext are accessible through the library's microfilm, microfiche and microcard readers.

The general resources of the library are augmented by a Curriculum Laboratory; a rapidly growing collection of United States and New Jersey government publications and special collections that include the China Institute Library; a New Jersey collection and poetry collections for special research.

### **Media Services Center**

The Media Services Center has been an instructional support service of the total College community for over thirty years. The Center's primary function has been to provide instructional materials of non-book nature for use by faculty and students.

The College has always had a strong student activities program and in many instances the program requires the use of communication media and ancillary materials. The Media Services Center has undertaken to provide service to this important academic community endeavor.

The Center provides support services rather than direct instruction. The Center centralizes the purchase, distribution and circulation of College audio-visual equipment. It maintains, services and repairs all audio-visual equipment on campus.

### **Student Parking Facilities**

The College maintains several parking lots for use by students. These areas are designated on any map of the campus. The College assumes no responsibility for cars or their contents while parked on College property.

### **Health Services**

There is a registered nurse on duty in the College Health Center. Call 893-4361. Emergency medical care is also available.

Regular office hours are from 8 a.m. until 4 p.m. After 4 p.m. this office is for emergencies only.

## GENERAL INFORMATION

### About the Graduate Programs

The College granted its first Master of Arts degrees to 13 students in June, 1933. In 1973, Master of Arts degrees were awarded to 883 students, of whom 408 studied in the School of Educational and Community Services, 180 in the School of Social and Behavioral Sciences, 119 in the School of Professional Arts and Sciences, 78 in the School of Mathematics and Science, 54 in the School of Humanities and 44 in the School of Fine and Performing Arts.

#### Division of Graduate Studies

Graduate programs at the College are organized within the Office of the Vice President for Academic Affairs into a Division of Graduate Studies. The administrative officer of the division is the Dean of Graduate Studies.

#### Graduate Council

The Graduate Council assists the Dean of Graduate Studies with regard to developing and administering general policies for graduate education at the College. The Dean of Graduate Studies is chairman of the Graduate Council.

Members of the Council are the Vice President for Academic Affairs, the Dean of each of the College's six schools, a faculty member and graduate student from each school, the Director of the Evening Division and Summer Session, and the Head Librarian.

#### Program Offerings

Each of the six schools offers programs leading to the Master of Arts degree:

##### SCHOOL OF EDUCATIONAL AND COMMUNITY SERVICES

- Educational Leadership (Administration and Supervision)\*
- Reading
- Student Personnel Services\*
- Teaching (Master of Arts in Teaching)

##### SCHOOL OF FINE AND PERFORMING ARTS

- Fine Arts
- Music
- Speech and Theater

##### SCHOOL OF HUMANITIES

- English and Comparative Literature
- French
- Spanish

##### SCHOOL OF MATHEMATICS AND SCIENCE

- Biology
- Chemistry
- Geoscience
- Mathematics (Pure and Applied Mathematics. Computer Science. Mathematics Education)

\*Sixth-year programs are offered in Educational Leadership and in Student Personnel Services.

## SCHOOL OF PROFESSIONAL ARTS AND SCIENCES

Business Education and Distributive Education  
Environmental Studies\*  
Health Education  
Home Economics  
Industrial Education and Technology  
Physical Education

## SCHOOL OF SOCIAL AND BEHAVIORAL SCIENCES

Communication Sciences and Disorders  
Educational Psychology  
Psychology\*\*  
Social Sciences

\*An inter-disciplinary program including education, science and social studies.

\*\*A sixth-year program is offered within the Department of Psychology for the school psychologist.



M. Herbert Freeman  
Dean of Graduate Studies



## **ADMISSION TO GRADUATE STUDY**

The Division of Graduate Studies invites applications from highly-qualified graduates of baccalaureate programs in the liberal arts, the sciences, business, teacher education and other fields.

Since the number of graduate students who can be accommodated is limited, the College may admit only those applicants who demonstrate the greatest tangible promise of scholarly achievement.

A bachelor's degree from an accredited college or university in the United States or abroad is a basic requirement for admission, but is not the sole factor. Applicants must clearly demonstrate their ability to benefit from Montclair State College's programs.

Admission to a graduate degree program is restricted to applicants whose undergraduate records and scores on the Aptitude Test of the Graduate Record Examination indicate a high degree of probable success. To be admitted to a particular degree program, the applicant must be accepted by the department offering that program and approved by the Dean of the Graduate Division. Applicants should plan to take the GRE Aptitude Test as soon as possible after applying for admission.

A limited number of non-degree students will be admitted to graduate courses who, while not directly interested in pursuing any specified degree program, want to take individual courses in particular fields of study. All such applicants must present evidence of an acceptable baccalaureate degree from an approved college or university. They must also submit a request for a program of study to meet the objectives stated in the application. Admission on a non-degree basis does not in any way imply acceptance as a candidate for the Master of Arts degree.

### **Application for Admission into a Degree Program**

An application for admission may be obtained from the Office of Admissions/Graduate. The completed application must be submitted to the office with a non-refundable fee of \$10; this fee should be sent by check or money order.

Transcripts of all previous graduate and undergraduate college study must be sent directly to the Office of Admissions/Graduate by the student's college. The applicant for a degree program should make arrangements to have an official notification of his Graduate Record Examination score to the Office of Admissions/Graduate.

Applicants for degree programs should be on file in the office by July 1 for Fall admission, by November 1 for admission the following Spring and by April 1 for admission in the Summer.

### **Application for Admission into a Non-Degree Program**

An application for admission into any non-degree program may be obtained from the Office of Admissions/Graduate. The completed application must be submitted to the Admissions Office/Graduate with a non-refundable fee of \$10. A transcript indicating the highest degree awarded must be sent directly to the Office of Admissions/Graduate by the student's college. The applicant must also submit a detailed statement of his program of studies and the objectives to be achieved in the graduate program at Montclair State College.

Applications including transcripts, fee payments, and statement of objec-



tives should be on file in the Admissions Office/Graduate by July 1 for Fall admission, by November 1 for admission the following Spring and by April 1 for admission in the Summer.

Information and advisement on all graduate programs may be obtained from the Graduate Office.

Admission as a non-degree student is **not** admission into a Master of Arts degree program.

An applicant for a graduate degree program who has filed an application for admission, may register for six semester hours of graduate work pending acceptance into that degree program. Details about application procedures may be obtained from the Assistant Director of Admissions/Graduate.

### **Acceptance and Conference with Advisor**

After an analysis of the credentials of the applicants, those who meet the College admission requirements will be advised to confer with the graduate advisor of the department in which the applicant wishes to study. The advisor will decide whether the applicant is acceptable and will then develop an official program of study with the student for matriculation.

After the conference with the departmental advisor, the applicant will receive official notification about matriculation from the Division of Graduate Studies. Details about matriculation decisions may be obtained from the Assistant Director or Dean of Graduate Studies.

### **Termination of Acceptance**

Students admitted to either a degree or non-degree program must enroll for course work within one academic year or the acceptance terminates.

### **Admission of Veterans**

Veterans seeking admission to the Division of Graduate Studies should apply to the Veterans Administration well in advance of the registration dates for a certificate of eligibility and entitlement. These forms may be obtained at the Veterans Administration office at 20 Washington Place, Newark, New Jersey.

The Veterans Administration has established certain limitations, particularly with regard to changes in courses. It therefore becomes important that the veteran clearly state his educational objectives on all appropriate forms.

To assist the veteran, to ensure that his application is in order, and that the veteran has fulfilled the requirements of the GI bill, the veteran should report during registration to the Veterans' Counselor, whose office is in the trailer.

### **Foreign Applicants**

Foreign applicants should obtain the Application for Admission to an Educational Institution in the United States from the Office of Admissions/Graduate, and return the completed form to the office at least one month prior to the normal deadline.

As proficiency in spoken and written English is prerequisite to graduate study at Montclair State College, the College requires foreign applicants for whom English is not a native language to take the Test of English as a Foreign Language, administered worldwide by the Educational Testing Service of Princeton, New Jersey. Scores from the Test of English as a Foreign Language should reach the Office of Admissions/Graduate no later than the normal deadline.

### Senior-Graduate Students

Montclair State College undergraduates with academic averages of 2.67 or greater, who are within 16 semester hours of graduation, may take up to six semester hours of graduate work.

In order to be eligible to take graduate courses, a qualified senior must complete the appropriate application, which is available in the Graduate Office. This application must be approved by the registrar, the chairman of the graduate department in which the student wishes to study and the Dean of Graduate Studies.

Qualified undergraduates taking Senior-Graduate courses for graduate credit must pay appropriate fees and tuition at the regular graduate student rates. Admission of an undergraduate to Senior-Graduate courses does not imply future acceptance into a graduate degree program.





## **ACADEMIC INFORMATION**

### **Academic Policies**

#### **Course Load**

Full-time students in residence must register for 12 to 16 credit hours each semester. Part-time graduate students who are employed on a full-time basis may not register for more than nine semester hours of credit a semester, including summer sessions.

The Division of Graduate Studies recommends that the part-time student take no more than six semester hours of course work in any one semester.

#### **Course Numbers**

Most courses numbered from 400 through 499 are senior-graduate courses. They may be taken for graduate credit only with permission of the graduate faculty advisor in the student's major department and only to the extent approved by regulations of the Division of Graduate Studies. At this time, no more than 25 percent of courses offered for the Master of Arts degree may be courses numbered from 400 through 499.

Courses numbered 500 and above are open only to graduate students.

#### **Restrictions for Graduate Credit**

No credit is granted toward the Master of Arts degree for certain 400-level courses which are required for initial certification.

Courses taken more than ten years prior to the date of the student's matriculation will not be accepted for credit toward the Master of Arts degree.

No more than six semester hours of credit may be allowed for courses completed prior to matriculation for the Master of Arts degree, except in specially-designated programs. This six-credit limitation includes all transfer credits as well as pre-matriculation credits completed at Montclair State College prior to the semester in which the student is matriculating.

No graduate credit is allowed for courses taken at other colleges while the student is enrolled at Montclair State College unless the student obtains prior approval from the Dean of Graduate Studies to undertake such courses at other institutions.

Credit is not allowed for courses taken on an audit basis.

It is the obligation of each student to ensure that each course undertaken for graduate credit does not duplicate a course previously taken by that student. Courses may not be taken more than once for credit regardless of any change in the course number or title. Students are particularly cautioned to be careful with regard to courses that have been updated, where course numbers or titles may have changed; these courses may not be counted more than once.

#### **Transfer Credit**

A graduate of an accredited college or university may transfer a maximum of six semester hours of graduate credit toward the Master of Arts degree at Montclair State College, provided the student obtains approval from his departmental graduate advisor and from the Dean of Graduate Studies. A form for this purpose is available in the Division of Graduate Studies. This form should be completed well in advance of the date the transfer credit is needed.

Courses completed ten or more years prior to matriculation may not be transferred for graduate credit. Grades below B are not accepted for transfer credit.

### **Time Limit**

Work for the Master of Arts degree must be completed within six years from the date of matriculation, unless the Dean of Graduate Studies approves an extension. Applications for extension will be reviewed and evaluated by the Dean of Graduate Studies on the basis of the student's progress toward the degree and in accordance with established graduate policy at the time of the application.

### **Grades and Standards**

There are eight grades used at Montclair State College:

A Excellent	F Failure
B Good	INC Incomplete
C Fair	WD Withdrew
D Poor	NC No Credit

No graduate credit is allowed for courses completed with grades below "C". In order to qualify for the Master of Arts degree, a student must present an average grade of at least "B" in all courses.

The mark "F" signifies: (1) academic failure; (2) failure of the student to submit written notice of withdrawal, or (3) withdrawal after the midpoint in the semester. The mark "WD" is given to those who submit in writing their intention of withdrawing from a course before the midpoint of a semester.

The mark "INC" indicates that a student, due to illness, was unable to complete the work by the end of a semester. Course work for "INC" grades received in the Fall semester must be completed by April 15; course work for Spring or Summer "INC" grades must be completed by November 15. Failure of the student to complete the assigned course work by the given date will result in a final grade of "F". Deadlines are adjusted for courses which meet for more or less than a full semester.

Matriculated graduate students must maintain at least a "B" (3.00-4.00) grade point average in all courses attempted. Any graduate student whose grades fall below the required "B" average will be placed on probation and will be given one semester to achieve the required average. A written appeal for a waiver must be acted on by the Dean of Graduate Studies.

An official record of credits and grades earned will be mailed to the student following the close of each semester.

The Dean of Graduate Studies and the student's graduate faculty advisor may, for good reason, recommend to the Vice President for Academic Affairs that a student's matriculation status be revoked. Such recommendation will be made for students found deficient in personality, integrity, temperament, emotional adjustment or physical stamina, or after it has been established that there is evidence of serious unprofessional conduct.

### **Registration Procedure**

All graduate students who were registered at Montclair State College during a semester will receive registration materials for the next semester by mail. New students who apply after the cut-off date for mail registration, or students not registered in the previous semester, must register in person.



Details about registration procedures may be obtained from the Office of the Registrar.

### **Changes of Courses**

Students should not change their planned course program without approval of the departmental graduate advisor. Appropriate forms are available in the Division of Graduate Studies.

### **Withdrawal from a Course**

A written notice to the Office of the Registrar is required for withdrawal from a course. An acknowledgement will be sent to the student following receipt of the written notice of withdrawal.

Withdrawal from courses that meet more than or less than a full semester is allowed until the midpoint of the course.

Refunds are computed from the date of receipt of the written notice of withdrawal in the Office of the Registrar.

Students who do not submit a written notice will receive the grade of "F" in those courses which they cease to attend. Students who withdraw after the mid point will also receive an automatic "F" grade.

Students are cautioned that notification to the instructor does not constitute an official withdrawal.

### **Cancellation of Courses**

The College reserves the right to cancel any course for which enrollment is insufficient. In that event, students from the cancelled class may register for another course or receive a refund of tuition. This authorization to register for another course does not exempt a student from meeting the stated prerequisites for admission to that alternate class, or from the official program of study.

### **Change of Degree Program**

A student transferring from one degree program to another must complete a Change of Program Form, which may be obtained from the Division of Graduate Studies. This form must be signed by the departmental graduate advisors from the student's present department and from the department the student desires to enter, and must also be signed by the Dean of Graduate Studies.

Following approval of the application to change a degree program, a new official program of studies will be worked out with the student. Students are cautioned that all previously completed course work may not necessarily be approved for transfer to the new program. Students who change programs are governed by the six-year completion of requirements rule from the date of matriculation for the first degree program.

### **Master's Degree Credit**

Each student assumes responsibility for assuring that he completes the proper courses for his program needs. Students should bring to each registration period their official work programs as well as transcripts of graduate work already completed, in order to avoid taking courses which cannot be counted toward the Master of Arts degree in the student's field.

## Graduation Requirements

### Minimum Number of Semester Hours

A minimum of thirty-two semester hours of graduate credit is required in all departments. Additional hours may be added to compensate for any deficiencies in the applicant's undergraduate record. A minimum of thirty-two semester hours plus student teaching is required in the program with a major in teaching. A minimum of sixty semester hours is required for certification in the School Psychology Program.

### Thesis

Four of the total credits can be satisfied by a thesis which meets the approval of the faculty graduate advisor and the Dean of Graduate Studies.

A department may accept the Master's Thesis as equivalent to the required seminar, and/or in lieu of all or part of the final comprehensive examination. A student writing a thesis must register for the course, Departmental 600. Master's thesis, for four semester hours.

The student is expected to complete the thesis within one calendar year. An extension of time may be granted by the Dean of Graduate Studies after consultation with the student's advisor. If granted, the student must re-register for Departmental 600 on a no-credit basis and pay a fee for two semester hours. This extension will be for six calendar months. The thesis must be submitted six weeks prior to commencement. A copy must be submitted to the Dean of Graduate Studies for approval.

### Comprehensive Examination

The examination is usually given twice a year, once in October and once in March. It is the student's responsibility to file the Notification for Comprehensive Examination Form with the graduate advisor. The form is available in the Division of Graduate Studies office. This procedure should be completed at least six weeks prior to the examination date. Students who fail the departmental comprehensive examination are permitted to retake it twice.

Students should check with their departmental graduate advisors to determine the dates on which the comprehensive examinations will be offered.

### Application for Final Evaluation

The application form is obtained in the Office of the Registrar by the candidate anticipating the completion of the degree requirements. Responsibility for making application rests with the candidate.

This form must be completed and returned by March 1 for August conferment, by June 1 for January conferment, and by October 1 for June conferment.

Students should check with advisors concerning final examination dates and other details involved in graduation procedures.

### Commencement

Commencement exercises are held each Spring.

Students who meet the scholastic requirements for their degrees and who have fulfilled all obligations to the College in January, June or August will be awarded diplomas.

Participation in the commencement by June graduates is expected unless a request for conferment in absentia is approved by the Dean of Graduate Studies prior to the date of commencement. January and August graduates are also invited to attend the exercises.

**TUITION AND FEES\***

**Tuition Charge**

Graduate tuition, for those students who hold at least a bachelor's degree,	
per semester hour of credit .....	(in state) .....\$35.00
	(out of state) ..... 45.00

**Fees (Non-refundable)**

Registration fee, paid each time a student registers .....	2.00
Student Center Building fee, paid each time a student registers .....	2.00
per semester hour to a maximum of .....	22.00
Student Service fee, paid each time a student registers .....	1.50
per semester hour to a maximum of .....	17.50
Late registration fee, for all students who register after the regular registration period .....	5.00
Change of Class Schedule fee, for students who after their initial registration each semester, make a change or changes in their original class schedule other than withdrawal from a course .....	5.00

**Application Fee**

Each application for admission must be accompanied by a non-refundable application fee of .....	10.00
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**Transcript Fee**

For each copy of a student's transcript .....	1.00
Inquiries about procedures for requesting transcripts should be directed to the Registrar	

**Payment Instructions**

All checks should be made payable to: Montclair State College

**Refunding of Fees**

Refunds are made under circumstances detailed below if a student officially withdraws from a class by filing a written application with the Division of Graduate Studies.\*

The following schedule of refunds has been established by the New Jersey Board of Higher Education and is uniform for all New Jersey state colleges:

Period of Withdrawal	Percent Refunded
Before course begins .....	90%
During first third of course .....	50%
After first third of course .....	None

The percentage of refund is based on the total obligation. Tuition and service charges are refunded in full if classes are discontinued by the College.

In computing refunds, the date of withdrawal is the date on which the written notice of withdrawal is received in the Office of the Registrar.

\*Subject to change at any time by action of the New Jersey Board of Higher Education.



## Financial Assistance

### Graduate Teaching Assistantships

There are usually a very limited number of teaching assistantships available in some of the instructional departments to qualified graduate students. Applications should be requested from the Division of Graduate Studies or the appropriate department.

### Opportunities for Part-Time Employment

Montclair State College, through its Student Personnel Office, offers opportunities for students who desire off-campus part-time work after school, weekends and during vacations. The employment service does not guarantee jobs but there is no scarcity of opportunities.

Additional opportunities are available on campus for students to earn income as laboratory or dormitory assistants, secretarial and clerical assistants, or tutors.

### National Direct Student Loan Program

To be eligible for a loan, an applicant must be a citizen or national of the United States, or must have such immigration status and personal plans as to indicate that he is in the United States for other than a temporary purpose. Therefore, persons who are in this country on such visas as an "F" student visa or a visitor's visa, are not eligible.

The applicant must be a full-time college student on the graduate level in an institution of higher education participating in the National Direct Student Loan Program or be accepted for admission as a full-time student in such an institution.

Graduate students may borrow up to \$2,500 per year to a total of \$10,000. The maximum a student may borrow depends upon the government's appropriation and number of applicants. The borrower must sign a note for his loan.

The interest rate on these loans is three percent per year. Interest begins nine months after the student ends his full-time studies. The first payment is due one year after the end of the student's full-time studies, with some exceptions. The National Direct Student Loan Act provides that repayments are to be completed according to the repayment schedule. The above program is subject to change by the Department of Health, Education and Welfare.

### New Jersey State Student Loan Program

Loans are made by any participating banking or savings and loan institution in the state. Loans are guaranteed by the New Jersey Higher Education Assistance Authority.

A list of banks participating in this program may be obtained from the New Jersey Higher Education Assistance Authority or the College's financial aid advisor.

Maximum loan: Each graduate year—\$2,500.

Total loans including graduate may not exceed \$10,000.

Loan applicants must follow all procedures in effect at the time of the application.



## **THE SCHOOLS AT MONTCLAIR STATE COLLEGE**

The 36 departments of academic instruction at the College are organized into six Schools, each headed by its own Dean. Graduate instruction is under the direction of the Dean of Graduate Studies.

### **School of Educational and Community Services**

Ercell I. Watson, Ed.D., LL.D., Dean

The School of Educational and Community Services exists to provide professional educational services to the communities of the nation and particularly those of northern New Jersey. The specific components of society to which these services are directed are the individuals seeking admission to the teaching profession or preparation for areas of specialization or growth within the profession; public school systems; non-public schools; community agencies and business and industrial organizations. It is also concerned with the continuing development of the general field of education and those problems of society which are related to it.

The general role of the School is three-fold: (1) to make these services available in a manner which will be most accessible and useful to the recipients, (2) to utilize to the best advantage the training, experience and expertise of the staff in the performance of those services and (3) to act as a coordinating agency in working with other agencies of the College and community in mutual efforts of service. The general means of performing these services will be those of instruction, consultation, supervised laboratory experiences and research.

Current graduate programs in the School are designed to meet one or more of six needs: (1) instruction in Administration and Supervision (Educational Leadership) leading to the Master of Arts degree and New Jersey certification for positions of Supervisor, Principal or School Administrator; (2) instruction in the Student Personnel Services, including School Social Work (Visiting Teacher) leading to the Master of Arts degree and a New Jersey certification in guidance and school social work; (3) Master of Arts with a major in education to prepare liberal arts college graduates for teacher certification combined with further graduate study; (4) Master of Arts in Reading; and (5) advanced professional instruction for administrators, supervisors, counselors, classroom teachers and other personnel involved in educational pursuits.

The admission requirements and the requirements for the Master of Arts degree in each of the areas within the field of education are listed separately. Students who are not candidates for a degree may elect any courses except those for which they may not have the necessary prerequisites or which are restricted to candidates in the field of specialization. Courses at the sixth year level are available in Educational Leadership (Administration and Supervision) and Student Personnel Services.

### **School of Fine and Performing Arts**

Donald M. Mintz, Ph.D., Dean

The School of Fine and Performing Arts consists of the departments of fine arts, music, and speech and theater. Each offers preparation for careers in its disciplines, in public school teaching, and in public service and managerial professions associated with the arts.

Separately and together, the departments offer courses that recognize significant contemporary developments: the increased role of technology in artistic enterprise, the growth of film and television as artistic media, the tendency toward blurring of the boundaries between conventional artistic disciplines, and serious challenges to traditional notions of what art is.

Because Montclair is close to New York City, students are able to take advantage of the city's unrivaled cultural and artistic resources.

## **School of Humanities**

Wolfgang B. Fleischmann, Ph.D., Dean

The School of Humanities offers graduate work toward the Master of Arts degree in English and comparative literature, French language and literature and the literature of Spain and Spanish America.

The School is attractively housed in Partridge Hall, a new classroom and faculty office facility.

All graduate courses and curricula in the School of Humanities are under continual revision by a committee, chaired by the Dean of the School.

## **School of Mathematics and Science**

Thomas L. Wilson, Ph.D., Dean

The School of Mathematics and Science includes the departments of biology, chemistry, mathematics, and physics-geoscience. Graduate programs are offered in the areas of biology, chemistry, mathematics and geoscience.

Graduate programs in the sciences and mathematics were introduced in the College over thirty-five years ago. The two areas are dynamic and continuously increasing in complexity.

The School is located in portions of Finley and Mallory Halls and in the new Mathematics and Science building, which houses the departments of chemistry, mathematics and physics.

The College is a charter member of the New Jersey Marine Sciences Consortium. Certain of the courses, listed in the departments of biology and physics-geoscience, are given at the facilities of the Consortium.

## **School of Professional Arts and Sciences**

Houston G. Elam, Ph.D., Dean

Michael A. Puglisi, M.B.A., Associate Dean

Courses offered by the School provide a wide range of knowledge opportunities which, if elected carefully, result not only in a broadening of professional competence, but also in an improved life style.

Graduate programs in the School of Professional Arts and Sciences are offered to accomplish several objectives:

1. To increase one's knowledge within a specialized professional area improving job mobility and promotional opportunities.
2. To provide an opportunity for candidates to earn an advanced degree and obtain improved professional credentials.
3. To provide the opportunity for promoting professional skills outside one's area of major competence.

Graduate programs within the School are structured to result in the awarding of a Master of Arts degree in (1) Business or Distributive Education, (2) Environmental Studies, (3) Health Education, (4) Home Economics, (5) Industrial Education and Technology and (6) Physical Education.



## School of Social and Behavioral Sciences

Philip S. Cohen, Ph.D., Dean

Graduate programs in the School of Social and Behavioral Sciences are designed to accomplish four objectives.

1. To provide the opportunity for students to acquire advanced knowledge in one of the major areas of the social or behavioral sciences.
2. To acquaint the student with the inter-relatedness of the various fields within the social and behavioral sciences as well as their relationship to other disciplines.
3. To familiarize students with the particular methodology and problems of his or her field.
4. To provide students with the background to do creative and independent work both during and after their graduate careers.

Specifically, graduate programs are available in (1) Social Sciences, (2) History, (3) Psychology and (4) Communication Sciences and Disorders.

The social sciences and history comprise a number of disciplines, the boundaries of which are constantly changing and expanding. At the same time, research within the disciplines is becoming more specialized. The necessity for constant study, therefore, presses upon everyone involved in the social sciences whether he is teaching or working in government, industry or the helping professions.

The departments within the School of Social and Behavioral Sciences provide programs of an advanced character which reflect sound developments in scholarship in various fields. They also offer advanced courses for teachers who wish to improve their preparedness for specialized secondary school subjects. Finally, they aim to provide for the teacher an opportunity for keeping informed about changing techniques and problems related to teaching the social studies. Selections from advanced courses lead to the Master's degree in history or the social sciences, with concentration in a particular field.

The psychology department offers programs of a distinctly professional nature as well as those which are preparatory for more advanced degrees.

The graduate program in speech, language and hearing rehabilitation leads to increased skills and qualifications as a therapist in public schools or in special institutions, such as hospitals, and to completion of the requirements for certification in the State of New Jersey and in the American Speech and Hearing Association.



## BIOLOGY

Graduate Advisor: Professor Leah Koditschek

Department Chairman: Professor S. Marie Kuhn

The graduate programs in the biology department are designed to enable a student to develop his or her preparation for a career in biological fields requiring advanced training or for the teaching profession.

### Admission Requirements

Prior to matriculation for the Master of Arts degree in biology, the student should have completed a subject matter background of at least twenty-four semester hours in biology and have adequate preparation in college chemistry, mathematics and physics.

In cases where there has been a weak undergraduate program in the major and/or collateral fields, prerequisite courses, which will not count towards graduate credit, may be assigned.

Students in the teaching fields may use six semester hours of approved electives for the selection of graduate courses in the area of professional education.

The work program of the student is prepared in cooperation with the biology graduate advisor. Any changes in the program can be made only with the written approval of the graduate advisor. The student should keep the advisor informed of his progress in the program.

### Requirements for the Master of Arts Degree in Biology

- I. Specialization ..... 22-26 semester hours
  - A. The candidate must complete the research requirement by taking one of the alternatives listed below:
    1. Master's Thesis ..... Credit by arrangement
    2. 0401-514 Biology and the Problems of Society ..... 2
  - B. The candidate must complete a minimum of 16 semester hours within the biology department at the Upper Montclair campus.
- II. Approved Electives ..... 6-10 semester hours
- III. Comprehensive Examination

Minimum: 32 semester hours



## BUSINESS AND DISTRIBUTIVE EDUCATION

Graduate Advisors: Professor Louis C. Nanassy—Business Education

Professor Joseph C. Hecht—Distributive Education

Department Chairman: Professor Albert D. Rossetti

The department of business and distributive education prepares teachers of business education for administrative, supervisory and specialized work, or master teaching in the field of business education and distributive education. In order to attain these objectives the candidate has an opportunity to supplement his undergraduate program and to explore advanced areas of work in accordance with his individual background, experience, achievement and professional needs.

### Admission Requirements

Graduate work toward the Master of Arts degree in Business or Distributive Education presupposes the completion of an undergraduate major in business or distributive education or equivalent.

#### Requirements for the Master of Arts Degree in Business Education

- |      |   |                   |
|------|---|-------------------|
| I.   | Basic Professional Education .....  | 6 semester hours  |
| II.  | Specialization .....  | 20 semester hours |
|      | A. Required Courses   |                   |
|      | 0838-501 Principles and Problems of Business Education .....  | 3                 |
|      | 0838-503 Introduction to Research in Business Education .....   | 3                 |
|      | 0838-603 Seminar in Business Education .....  | 3                 |
|      | At least one of the following:  |                   |
|      | 0838-511 Improvement of Instruction in Bookkeeping, Accounting and<br>Business Arithmetic .....   | 3                 |
|      | 0838-512 Improvement of Instruction in General Business Subjects .....  | 3                 |
|      | 0838-513 Improvement of Instruction in Stenography and Secretarial Practice ..  | 3                 |
|      | 0838-514 Improvement of Instruction in Typewriting and Clerical Practice .....  | 3                 |
|      | B. Electives in Business Education and/or Distributive<br>Education .....   |                   |
|      |   | 8 semester hours  |
| III. | Free Electives .....  | 6 semester hours  |
| IV.  | Comprehensive Examination. Oral and written, given in the Fall and Spring in<br>conjunction with 0838-603 Seminar in Business Education. Examinations are<br>general in nature and are intended to test maturity of thought with respect to<br>business and distributive education. |                   |

Minimum: 32 semester hours

#### Requirements for the Master of Arts Degree in Distributive Education

- |      |   |                   |
|------|---|-------------------|
| I.   | Basic Professional Education .....                                    | 6 semester hours  |
| II.  | Specialization .....  | 20 semester hours |
|      | A. Required Courses   |                   |
|      | 0838-501 Principles and Problems of Business Education .....          | 3                 |
|      | 0838-503 Introduction to Research in Business Education .....         | 3                 |
|      | 0838-603 Seminar in Business Education .....                          | 3                 |
|      | At least one of the following:  |                   |
|      | 0840-550 Improvement of Instruction in Retailing Subjects .....       | 3                 |
|      | 0840-552 Improvement of Instruction in Wholesaling and Services ..... | 3                 |
|      | B. Elective in Distributive Education .....                           |                   |
|      |   | 8 semester hours  |
| III. | Free Electives .....  | 6 semester hours  |
| IV.  | Comprehensive Examination (See Business Education)                    |                   |

Minimum: 32 semester hours

## CHEMISTRY

Graduate Advisor: Professor Joseph F. Becker

Department Chairman: Professor Richard A. Lynde

The chemistry department offers an individualized graduate program designed for the student's academic background and specific purposes and needs. Individualized programs may include advanced level chemistry courses to provide depth in one area of chemistry, or advanced level courses in several areas of chemistry as well as graduate level courses in the allied sciences of mathematics.

### Admission Requirements

The minimum requirements of the Graduate Division as set forth in this bulletin (Admission to Graduate Study) are required for admission to the graduate program in chemistry. When the student is admitted to the Graduate Division, the chemistry advisor will evaluate the background in chemistry, other sciences and mathematics and a specific program will be designed. An entering student should present at least twenty-four semester hours of undergraduate chemistry credits. In consultation with the chemistry advisor, a program may be designed for students with less background to include prerequisites. Candidates for the Master's degree in chemistry should seek the guidance of the chemistry advisor in selecting the six hours of free electives.

### Requirements for the Master of Arts Degree in Chemistry

- |  |                    |
|--|--------------------|
| I. Specialization .....  | 26 semester hours  |
| A. Courses in Chemistry at the 500 level or above .....        | 15                 |
| B. Research: One of the following:                             |                    |
| 1905-550 Graduate Literature Search in Chemistry .....         | 2                  |
| 0834-505 Research Seminar in Science .....                     | 2                  |
| 1905-600 Thesis .....  | 4                  |
| C. Electives in Chemistry, Allied Sciences or Mathematics .... | 7-9 semester hours |
| II. Free Electives .....                                       | 6 semester hours   |
| III. Comprehensive Examination                                 |                    |

Minimum: 32 semester hours

COMMUNICATION SCIENCES AND DISORDERS

Graduate Advisor: Professor Harold M. Scholl  
Department Chairman: Professor Gerald Woolf

Graduate students have the opportunity to specialize within the broad area of communication sciences and disorders in one of the four major tracks: (1) speech pathology; (2) audiology; (3) the hard of hearing and the deaf and (4) learning disabilities.

All four programs stress an interdisciplinary approach to the understanding and remediation of communication and learning disorders, with emphasis on development of clinical skills. Successful students are those who have a strong need to understand the bases of clinical procedures, who work well with or without supervision, and who, with guidance from the staff, initiate independent projects, taking responsibility for personal growth in intellectual and clinical skills.

Students should indicate their choice of specialization at the time of advisement for matriculation.

Admission Requirements  
Speech Pathology

Students wishing to matriculate in this area must have completed the equivalent of 30 semester hours from among the following areas:

A. Professional Education—A minimum of 9 semester hours including one course from each of the following: principles and practices of education, educational psychology and curriculum.

B. Specialization—A minimum of 18 semester hours from among the following: psychology and education of the handicapped, phonetics, anatomy and physiology of the auditory mechanism, speech correction, speech pathology, clinical practices in speech, measurement of hearing (audiology) and voice and speech improvement.

A maximum of 125 hours of clinical practicum completed at the undergraduate level may be applied to the total of 300 hours required for the Master's degree.

Audiology and the Hard of Hearing and the Deaf

Students wishing to matriculate in this area must have a minimum of 18 semester hours from among the following:

anatomy and physiology of the auditory and vocal mechanisms, speech and language development, speech pathology, measurement of hearing, auditory rehabilitation, clinical practice in audiology.

A maximum of 125 hours of clinical practicum completed at the undergraduate level may be applied to the total of 300 hours required for the Master's degree.

Learning Disabilities

Students wishing to matriculate in this area must have:  
a standard New Jersey teachers certificate, or equivalent; one year of classroom teaching experience or special instructional experience (speech correction, reading, student personnel); approval by Graduate Committee on Admission for this program; two letters of recommendation regarding teaching or therapy skills.

Requirements for the Master of Arts Degree  
in Communication Sciences and Disorders

I. Basic Requirements .....	9 semester hours
One of the following:	
0824-503 Methods of Research .....	3
0824-507 Measurements and Evaluation in Cognitive Domain .....	3
0824-578 Testing and Evaluation .....	3



*2001-510	Research Methods in Psychology .....	3
*2001-578	Psychological Tests and Measurement .....	3
Two of the following:		
0808-500	Nature of Reading .....	3
1220-500	Acquisition of Speech and Language .....	3
Either:		
*2001-563	Theories of Learning .....	3
or		
*2001-560	Advanced Educational Psychology .....	3
The following electives may be taken in place of, or in addition to, required courses listed above by permission only:		
1220-502	Psychology of Oral Communication .....	3
*2001-561	Developmental Psychology .....	3
0842-564	Dynamics of Group Process .....	3
2001-568	Psychology of Group Dynamics .....	3
*0826-570	Counseling Adults .....	3
0826-580	Principles of Guidance and Counseling .....	3
*2001-582	Behavior Modification .....	3
*0826-585	Group Guidance and Counseling Activities .....	3
II.	Core Courses .....	8 semester hours
Required of all students regardless of specialization:		
2001-565	Psychology of Socially and Emotionally Handicapped .....	3
*2001-573	Physiological Psychology .....	3
or		
1220-595	Neurophysiological Bases of Learning Disabilities (Majors in Learning Disabilities may take this course—instead of 2001-573) .....	3
2001-561	Developmental Psychology .....	3
(required for Teacher of the Emotionally Disturbed program)		
1220-620	Orientation and Observation in Special Education .....	2
The following electives may be taken in place of, or in addition to, required courses listed above by permission only:		
1301-445	The Inner City Family .....	3
0821-540	Social Forces and Education .....	3
2001-553	Urban Psychology .....	3
2001-564	Psychology of the Physically and Mentally Handicapped Child .....	3
2208-565	Sociology of Youth .....	3
1220-586	Education of the Handicapped .....	3
III.	Specialization Requirements .....	21 semester hours

### Speech Pathology

1220-535	Advanced Seminar in Communication Disorders I .....	2
1220-536	Advanced Seminar in Communication Disorders II .....	4
1220-531	Advanced Audiology .....	3
1220-583	Language Disorders in Children .....	3
1220-592	Seminar in Research in Speech Pathology .....	3
Electives	.....	6 semester hours

Completion of 150-300 hours of clinical practicum in speech correction depending upon number of hours completed prior to matriculation for the graduate degree.

### Audiology

1220-543	Advanced Seminar in Audiology I .....	2
1220-544	Advanced Seminar in Audiology II .....	4
1220-531	Advanced Audiology .....	3
1220-593	Seminar in Research in Audiology .....	3
Elective in auditory rehabilitation	.....	3
(1220-537, 569, 570 or 571)		

\*Prerequisite requirements or sections for non-majors.



**The Hard of Hearing and the Deaf**

1220-531	Advanced Audiology .....	3
1220-561	Clinical Practicum on Teaching the Deaf (150 hours) .....	3
1220-569	Teaching Total Communication to the Deaf I .....	3
1220-570	Teaching Total Communication to the Deaf II .....	3
1220-571	Methods of Teaching the Deaf .....	3
1220-578	Seminar in Research in the Hard of Hearing and the Deaf .....	3
Elective	.....	3

**Learning Disabilities**

1220-580	Diagnosis and Correction of Children with Learning Disabilities I .....	3
1220-581	Diagnosis and Correction of Children with Learning Disabilities II .....	3
1220-590	Practicum in Diagnosis of Learning Disabilities .....	3
1220-582	Remediation of Basic Skills .....	3
1220-596	Practicum in Learning Disabilities .....	3
1220-589	Seminar in Research in Learning Disabilities .....	3
Elective	.....	3

**IV. Electives**

Selection from among the following courses will be determined through advisement and will be based on student's needs and interests.

**Communication Sciences**

1220-522	Advanced Phonetics .....	2
1220-534	Advanced Anatomy and Physiology of the Vocal and Auditory Mechanisms .....	3
1220-572	Speech Science and Instrumentation .....	3

**Communication Disorders****Speech Pathology**

1220-511	Advanced Speech Pathology .....	3
1220-512	Advanced Diagnosis of Communication Disorders .....	3
1220-513	Parent Counseling in Communication Disorders .....	3
1220-514	Communication Disorders of the Aged .....	3
1220-515	Voice Disorders .....	3
1220-532	Practicum in Speech Rehabilitation .....	2-3
1220-584	Cleft Palate and Oral Deformities .....	3
1220-585	Stuttering .....	3
1220-591	Organization and Administration of Communication Disorders Program .....	3
1220-594	Independent Study .....	1-3
1220-533	Supervision of Speech and Hearing Programs .....	3

**Audiology**

1220-537	Hearing Aids and Hearing Aid Selection .....	3
1220-538	Differential Audiometry .....	3
1220-540	Practicum in Audiology .....	2
1220-542	Identification Audiometry and Conservation Programs .....	3

**Deafness and Hearing Impairment**

1220-574	Psychology of Deafness .....	3
1220-500	Speech and Language Acquisition .....	3
1220-501	Language Development in the Primary Grades .....	3

**Language Disabilities**

1220-586	Education of the Handicapped .....	3
1220-587	Educational Technology in Teaching Children with Learning Disabilities .....	3
1220-588	Teaching Specialized and Vocational Skills to Children with Learning Disabilities .....	3

### Additional Departmental Requirements

1. Comprehensive project or examination.

2. Majors in speech pathology and audiology must complete a total of 300 hours of supervised direct clinical experience. Majors in Hard of Hearing and Deaf, and Learning Disabilities, must complete a minimum of 150 clock hours of supervised experience.

Up to 125 hours completed as an undergraduate will be accepted toward the requirement.

Note: Interrelated graduate programs in special education are described on page 65.

Courses are offered in this department that meet prerequisite requirements in speech pathology for admission to the graduate program. In addition, post-master's students may apply for admission to a program leading to certification for Learning Disabilities Teacher-Consultant.

A certification course for Teacher of the Handicapped is also available (See Approved Certification Programs)

### Requirements for Concentration in Teacher of the Socially and Emotionally Handicapped

One course of study in the College's interdepartmental programs in special education prepares students to teach socially and emotionally maladjusted children. This concentration, coordinated by the Psychology Department, also leads to New Jersey certification in Teacher of the Handicapped.

Candidates for this program must meet the admission requirements of the Division of Graduate Studies. In addition, they must meet the following departmental requirements.

1. Miller Analogies Test.
2. Interviews with Departmental Committee and approval of the Committee.
3. Preparation in psychology and education courses is desirable. Students lacking minimal preparation will be required to take prerequisite courses. Teaching certification is not required.

I. Basic Requirements .....	9 semester hours
0824-503 Methods of Research .....	3
0824-507 Measurement and Evaluation in Cognitive Domain .....	3
0824-578 Testing and Evaluation .....	3
2001-510 Research Methods in Psychology .....	3
2001-578 Psychological Tests and Measurement .....	3
Two of the following:	
0808-500 Nature of Reading .....	3
1220-500 Acquisition of Speech and Language .....	3
Either:	
2001-563 Theories of Learning .....	3
or	
2001-560 Advanced Educational Psychology .....	3
Electives approved by advisor may be taken in place of, or in addition to, required courses if equivalencies of above are presented.	
II. Core Courses .....	8 semester hours
Required:	
2001-A561 Developmental Psychology .....	3
2001-A565 Psychology of the Socially and Emotionally Handicapped .....	3
1220-A620 Orientation and Observation in Special Education .....	2
Electives approved by advisor may be taken in place of, or in addition to, required courses if equivalencies of above are presented.	
II. Specialization Requirements .....	21 semester hours
2001-540 Remedial Techniques with Emotionally Disturbed Children .....	3
2001-541 Curriculum Development and Methods of Teaching Inner-City Children .....	3

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2001-545	Seminar in Emotional Disturbances of Children I .....	3
2001-546	Seminar in Emotional Disturbances of Children II .....	3
2001-553	Urban Psychology .....	3
2001-663	Independent Study .....	2
2001-664	Practicum in Teaching Emotionally Disturbed Children I .....	2
2001-665	Practicum in Teaching Emotionally Disturbed Children II .....	2
IV. Examination: a candidate is required to pass a written comprehensive examination prior to graduation.		



## EDUCATIONAL LEADERSHIP

Graduate Advisors: Educational Leadership: Professors Bellagamba, Castens, Cuff, Merlo, Weischadle

Reading: Professors Brunner, Schantz

Research and Evaluation: Professor Gerhard Lang

Technology in Education: Professor Rust

Department Chairman: Professor Laurence Bellagamba

Educational leadership, working with other departments of the College and the School, prepares educational leaders in the broadest sense. Programs of graduate study leading to the Master of Arts in Administration and/or Supervision, Reading, and to post-M.A. studies, are offered. In addition, the department offers courses at the graduate levels in educational research and evaluation, technology in education, and reading.

Although the graduate programs are directed toward certification as Supervisor, Principal, School Administrator, Business Administrator or Reading Specialist, a comprehensive study of the field of educational leadership is encouraged.

Certification programs are also available to those holding M.A. degrees in a subject area and desiring certification as supervisors either in that area or in other administrative or supervisory positions.

Our programs provide solid scholastic foundations in the multi-faceted purposes of education in a democratic society. They combine study with close observation and practice in various communities and agencies. The graduate programs in this department prepare students for positions as:

1. major administrative or supervisory personnel at all levels of educational systems.
2. educational consultants.
3. managers of emerging educational programs in business and government.
4. educational managers and planners in the media fields.
5. reading specialists or consultants.
6. educational researchers and evaluators.

Our effort is to select candidates carefully and lead them to be able to:

1. develop a personal philosophy of education and social ethic consistent with related theories of learning and human development.
2. develop characteristics required for effective leadership in education.
3. analyze educational organizations, and plan programs and strategies for increasing organizational effectiveness.
4. develop techniques to facilitate interpersonal and group problem solving and decision making.
5. develop skills in managing change and conflict in educational endeavors.
6. Interpret research findings and design and implement research techniques to their organizational needs.

### Requirements for the Master of Arts Degree in Educational Leadership

- I. Matriculation into the Master of Arts Programs in Educational Leadership (Administration and/or Supervision) based on:
  - A. a Bachelor of Arts degree from an accredited institution of higher education.
  - B. a valid teaching certificate issued by a State Department of Education.
  - C. qualifications for graduate study as indicated by the undergraduate scholastic average and scores on the aptitude section of the Graduate Record Examination.
  - D. 1½ years of successful teaching experience or other employment judged as suitable educational experience.



- E. satisfactory completion of Phase I of the program or equivalent (See program below).
- F. competency in written English and an acceptable statement of personal goal: written by the candidate.
- G. recommendations of three educational leaders, one an instructor in Phase courses.
- H. personal characteristics for leadership as displayed in a department interview
- J. a matriculation examination taken and passed while in the process of completing Phase I.

A student must apply for graduate study to determine his eligibility before completing six semester hours of course work in Educational Leadership in Phase I or equivalent. Final action is also based on all-College requirements and any special individual requirements assigned to the student by the Educational Leadership faculty.

Transfer students wishing to have prior course work recognized which has been taken at another accredited institution must take at least one Phase I course at Montclair State College within the last five years before matriculation.

- II. Phase I Requirements ..... 9-12 semester hours
  - 0824-503 Methods of Research ..... 3
  - A graduate course offered in the social and behavioral sciences or humanities, approved by advisor ..... 3
  - 0827-510 Educational Administration I ..... 3
  - 0827-564 Dynamics of Group Process or the successful completion of a course in group dynamics at the graduate level of any accredited college, or by participation in a Human Relations Laboratory of at least one week's duration conducted by an accredited institution ... 3
- III. Phase II Requirements ..... 9 semester hours
  - 0829-530 Principles of Curriculum Development ..... 3
  - 0829-540 Supervision I (Principles) ..... 3
  - Elective approved by advisor ..... 3
- IV. Phase III Requirements ..... 12-21 semester hours
  - Electives to be selected after consultation with the advisor, and listed in the Master of Arts work program. They may be selected to satisfy certification requirements. Certain courses outside the School may be selected. A Field Experience, 0827-615 (3 semester hours) must be included if the candidate has no equivalent experience. Minimum: 33 semester hours

## ADVANCED GRADUATE STUDY IN ADMINISTRATION AND SUPERVISION

Students holding a Master of Arts degree and New Jersey certificate for Principal who wish to continue planned graduate study of thirty additional semester hours will be required to meet all matriculation requirements for admission to the Master of Arts program in Administration and Supervision, and make a satisfactory grade on a comprehensive examination covering the field. Such a thirty hour program will need to be approved by a faculty advisor so as to meet the professional goals of the student, including certification for Administrator (Superintendent of Schools) in New Jersey.

### Requirements for the Master of Arts Degree in Reading

#### Admission Requirements

Provision is made in this program to matriculate students who have demonstrated interest and ability suitable to reading education. Applicants shall furnish acceptable evidence of talent appropriate for competence in reading instruction. Letters of recommendation from the school system superintendent or the school building principal will be acceptable. Final matriculation is the departmental decision; prerequisites will be determined by departmental advisement.

- I. Basic Professional Education ..... 6 semester hours
  - 0824-503 Methods of Research (required) ..... 3
  - Elective in School of Educational and Community Services ..... 3

- II. Required Courses in Reading ..... 12 semester hours
- 0808-500 The Nature of Reading ..... 3
- 0808-511 Case Studies of Reading Difficulties ..... 3
- 0808-513 Corrective and Remedial Reading I ..... 3  
(written permission required)
- 0808-505 Research Seminar in Reading ..... 3  
(written permission required)
- I. Elective Courses in Reading ..... 9 semester hours
- Students must take additional reading electives in order to meet specialization requirements.
- 0808-501 Technique of Reading Improvement in Secondary Schools ..... 3
- 0808-502 Administration and Supervision of Reading Programs ..... 3
- 0808-503 Literature for Adolescents ..... 3
- 0808-504 Reading Needs of Adult Learners ..... 3
- 0808-506 Reading Resources ..... 3
- 0808-509 Teaching of Communication Skills ..... 3  
(Open to M.A.T. and certification students only)
- 0808-510 Field Experience in Reading ..... 3
- 0808-512 Seminar in Reading Difficulties ..... 3
- 0808-514 Corrective and Remedial Reading II ..... 3  
Recommended (written permission required)
- V. Free Electives ..... 6 semester hours  
Any graduate courses offered by the College
- V. Additional Departmental Requirements
- A. Supervised clinical experience within the framework of required courses and/or in addition to course work. Arrangements will be made to provide this experience in the Montclair State College Reading Center.
- B. A written comprehensive examination, supplemented if necessary by an oral examination.
- C. A reading portfolio containing representative work and personal contributions in reading will be compiled by the student.

Minimum: 33 semester hours

## ENGLISH AND COMPARATIVE LITERATURE

Graduate Advisor: Professor Claire Healey

Department Chairman: Professor Sanford Radner

The department endeavors to prepare literary critics, productive scholars and accomplished teachers. Through courses in British, American and Comparative Literature, the department strives to give the student broad perspective. Through seminars for advanced students, it hopes to achieve indepth insights.

### Admission Requirements

Candidates for matriculation in the Master of Arts program of this department must show a B average or better in their undergraduate work and a score of not less than 500 (Verbal) on their Graduate Record Examinations. Most applicants will have majored in English at the undergraduate level. Students with strong academic credentials may also apply, even if they do not have the recommended background in English. The graduate advisor will interview each candidate for the program regarding his scholastic record and his intellectual and professional goals.

### Requirements for the Master of Arts Degree in English and Comparative Literature

- I. The minimum requirement is 33 semester hours of academic credit. Within the offerings of the department, the student may choose areas of study best suited to his individual needs and ambitions.
- II. Students will be required to enroll in 1501-605 Seminar in Literary Research, and in 1501-606 Thesis Writing. In these courses, the student documents and completes his Master of Arts thesis. The thesis is written under the direction of a member of the graduate faculty.
- III. The foreign language requirement may be fulfilled by passing a written test in translation. Students of comparative literature will receive approval of the language of their primary area of study. Otherwise the language will normally be French, German, Italian, Russian or Spanish. No student may undertake his thesis project until he has fulfilled the language requirement.
- IV. All candidates are required to take a three-hour examination which tests his critical judgment and general sensitivity to British and American literature. This examination is also a test of competence in written expression.

Preparation for the comprehensive examination is the student's responsibility. He may, however, ask for guidance from any and all members of the graduate faculty. For best results on the comprehensive examination the graduate faculty recommends that the student structure his course choices for exposure to studies in genres, periods, individual authors and criticism, both historical and contemporary. The comprehensive examination, which is given in October and March of each year, may be taken any time after the student has completed one half of his course credits. The student should consult the graduate advisor in advance of the scheduled examination.



## ENVIRONMENTAL STUDIES

Director: Professor W. Augustus Rentsch

The graduate program leads to the degree of Master of Arts in Environmental Studies. Students may select one of the concentrations described below. The student's program and sequence of offerings through the two to three years necessary for completion of the program are planned jointly by the advisor and the student with approval of the director of environmental studies.

### Admission Requirements

Requirements for admission to graduate study are prescribed by the Graduate Division. Students lacking adequate preparation will be required to take additional courses at the undergraduate level as prerequisites to graduate study.

### Requirements for the Master of Arts Degree in Environmental Studies

- I. Required courses ..... 19 semester hours
  - A. Introduction to Environmental Studies
    - Abiotic Environment ..... 3
    - Biotic Environment ..... 4
    - Socio-cultural Environment ..... 3
  - B. Strategies for Planned Change ..... 3
  - C. Environmental Studies Communication ..... 3
  - \*D. Field Studies (Residence at MSC northern campus, the N.J. School of Conservation, Branchville, N.J.)
- II. Concentration (select one)
  - A. Environmental Education ..... 13 semester hours
    - Environmental Education ..... 3
    - Curriculum Development in Environmental Education ..... 3
    - Practicum in Environmental Education ..... 3
    - Environmental Education Mini-course Elective ..... 1
    - Research ..... 3-6
  - B. Environmental Science Option ..... 13 semester hours
    - Environmental Science Seminar in Decision Making ..... 3
    - Research ..... 3
    - Electives ..... 4-7

Minimum: 32 semester hours

Previous academic courses taken and/or evaluation will determine the student's preparation in physical, biological and social components. With approval of the director, students may choose alternative offerings to strengthen their programs.



FINE ARTS

Graduate Advisor: Professor Charlotte Lockwood  
Department Chairman: Professor Charles H. Martens

The graduate program in fine arts is designed to provide the committed artist, art teacher, art historian, or advanced layman with the opportunity to acquire further knowledge, skills and indepth experience. The program allows for concentration in the area of the student's choice. Areas of specialization are offered in art education, art history, studies in the visual arts, and studio areas of painting, sculpture, graphics, crafts, photography and cinematography.

Studio courses are advanced courses and may be taken only with departmental permission. Although experience in the particular medium of the course is not required, a strong art background is necessary for success. Art history and philosophy courses are open to non-art majors.

Admission Requirements

The requirements established for all graduate studies and for matriculation at the College will be followed in respect to this program. Basic Professional Education requirements may be waived by the departmental advisor for non-teaching students.

Matriculation requires completion of a minimum of 36 semester hours in fine arts, including history and studio courses, or equivalent art studies at recognized institutions.

A portfolio of representative art work will be required as evidence of the applicant's ability. Advice concerning this requirement may be obtained from the department's graduate advisor.

The department may require one or more specified probationary courses prior to matriculation.

Requirements for the Master of Arts Degree in Fine Arts

I. Required Courses	10 semester hours
1003-590 Modern Philosophies of Art I	3
1003-592 Selected Problems in Art History I	3
1001-603 Seminar in Art (with Graduate Project*)	2
1001-604 Seminar in Art II (with Graduate Project*)	2
Six credits in Professional Education required for Art Education majors.	
II. Electives	10-16 semester hours
(subject to the approval of the graduate advisor)	
0831-501 Contemporary Viewpoints in Art Education	3
0831-502 Advanced Curriculum Construction in Art	3
1001-611 Individual Study I	2-8
1001-612 Individual Study II	2-8
1001-620 Field Course in Art I	2-6
1001-621 Field Course in Art II	2-6
1002-511 Graduate Painting I	2
1002-512 Graduate Painting II	2
1002-513 Graduate Painting III	2
1002-514 Graduate Painting IV	2
1002-521 Graduate Sculpture I	2
1002-522 Graduate Sculpture II	2
1002-523 Graduate Sculpture III	2
1002-524 Graduate Sculpture IV	2
1002-550 Screen Printing I	2
1002 551 Screen Printing II	2
1002-564 Screen Printing III	2
1002-565 Screen Printing IV	2

\*Required of all candidates except those who elect 1001-600 Master's Thesis I and 1001-601 Master's Thesis II.

1002-552	Intaglio Printing I .....	2
1002-553	Intaglio Printing II .....	2
1002-554	Woodcut Printing I .....	2
1002-555	Woodcut Printing II .....	2
1002-574	Woodcut Printing III .....	2
1002-575	Woodcut Printing IV .....	2
1002-556	Lithography I .....	2
1002-557	Lithography II .....	2
1002-558	Lettering I .....	2
1002-559	Lettering II .....	2
1002-560	Graphic Design I .....	2
1002-561	Graphic Design II .....	2
1003-590	Modern Philosophies of Art I .....	3
1003-591	Modern Philosophies of Art II .....	3
1003-592	Selected Problems in Art History I .....	3
1003-593	Selected Problems in Art History II .....	3
1003-594	Northern Renaissance Art .....	3
1090-525	Graduate Metalwork & Jewelry I .....	2
1090-526	Graduate Metalwork & Jewelry II .....	2
1090-531	Graduate Ceramics: Pottery & Sculpture I .....	2
1090-532	Graduate Ceramics: Pottery & Sculpture II .....	2
1090-533	Graduate Ceramics: Pottery & Sculpture III .....	2
1090-534	Graduate Ceramics: Pottery & Sculpture IV .....	2
1090-541	Graduate Weaving I .....	2
1090-542	Graduate Weaving II .....	2
1090-543	Graduate Decoration of Fabrics I .....	2
1090-544	Graduate Decoration of Fabrics II .....	2

II. Basic Professional Education ..... 6-9 semester hours  
 May be waived for those in non-teaching areas.

V. Free Electives ..... 6-8 semester hours

V. Final oral examination in relation to graduate project.

Minimum: 32 semester hours

FRENCH

Graduate Advisor: Professor Madeleine Sergent  
Department Chairman: Professor Helene Klibbe

A graduate program in French is designed to prepare students for both teaching and research in language and literature.

A Master of Arts degree opens opportunities to teach in both community colleges and high schools, and provides a solid foundation for students interested in continuing their studies toward a Doctor of Philosophy degree. Graduate training in French is also increasingly useful for positions in government and industries concerned with French-speaking areas of the world.

Admission Requirements

Admission is open to students who hold a bachelor's degree and have completed at least 24 semester hours of undergraduate French or its equivalent. Students applying for admission are required to present their Graduate Record Examination scores for the Advanced Test in French in addition to the standard College requirements for admission to graduate study.

After acceptance, the candidates will consult the graduate advisor to plan their programs. The course program must be approved by the graduate advisor each semester, before registration.

Individuals holding the bachelor's degree and showing an adequate proficiency in French may enroll in graduate courses, even though they do not wish to enter the Master of Arts program.

Requirements for the Master of Arts Degree in French

I. Required Courses	5 semester hours
1102-505 History of the French Language	
1102-603 Research Seminar	
(Waived if student elects to write a thesis)	
II. French Electives	21 semester hours
1102-506 Advanced French Phonetics	
1102-511 Medieval French Literature	
1102-513 Medieval French Theater	
1102-516 Rabelais and Montaigne	
1102-517 Poetry of the Renaissance	
1102-525 Moralists of the Seventeenth Century	
1102-526 Corneille, Racine and Moliere	
1102-527 Descartes and Pascal	
1102-530 Philosophy and Politics in Eighteenth Century France (formerly Montesquieu and Voltaire)	
1102-531 The Development of the Novel in Eighteenth Century France (formerly Rousseau and the Precursors of Romanticism)	
1102-532 Eighteenth Century Seminar	
1102-537 Nineteenth Century French Theater	
1102-538 French Novel of the Nineteenth Century I	
1102-539 French Novel of the Nineteenth Century II	
1102-540 Nineteenth Century French Poetry	
1102-542 Twentieth Century French Theater	
1102-543 Twentieth Century French Poets	
1102-544 Twentieth Century French Novel I	
1102-545 Twentieth Century French Novel II	
1102-546 Contemporary French Novel	

These courses will be offered on a rotating schedule to enable students preparing for the Master's degree to take at least one course in each century within a year, summer session included.

- III. Free Electives ..... 6 semester hours
- IV. Thesis (optional) ..... 4, on approval
- V. Comprehensive Examination: Two sessions of written examination covering French literature from the Middle Ages to the present, based on a reading list and subject matter covered in the program courses.

Minimum: 32 semester hours



# GEOSCIENCE

Graduate Advisor: Professor Charles L. Hamilton  
Department Chairman: Professor Ludwik Kowalski

The graduate programs in geoscience are designed to enable the student to pursue further study in the various areas of the department for professional or personal reasons, to further his preparation for the teaching profession, or for a career requiring advanced training for teachers in the field.

For the arts and science student, a graduate program is designed to give opportunity for indepth study in the broad field of geoscience (geology). The program provides sufficient flexibility through electives so that emphasis in metamorphic and igneous geology, sedimentology and paleontology, or oceanography and marine geology is possible. Some of the latter courses will be taken at the various sites of the New Jersey Marine Sciences Consortium.

## Admission Requirements

Prior to matriculation the student should have completed a subject matter background of at least twenty-four semester hours in the area of specialization, as well as a sufficient background in related sciences and basic mathematics. In cases of a weak undergraduate background, prerequisite courses, not for graduate credit, may be assigned.

Candidates must fulfill the other criteria for graduate matriculation as listed in this bulletin (Admission to Graduate Study). Each candidate's background and credentials must be received and approved by the graduate advisor for the department.

## Requirements for the Master of Arts Degree in Geoscience

Thirty-two semester hours are required, of which up to 8 may be at the 400 level. Additional 400 level courses will not be given credit without written approval of the department graduate advisor. Additional hours may be required to compensate for any deficiencies in the applicant's undergraduate record.

Degree candidates employed in the field of education may use six semester hours of free electives for graduate courses in the area of professional education.

I. Required Courses	9-12 semester hours
A. 1914-435 Sedimentology	4
1914-506 Advanced Invertebrate Paleontology	4
1914-512 Paleoecology	3
B. 1914-503 Advanced Physical Geology	4
1914-504 Advanced Historical Geology	3
1914-571 Geophysics	3
C. 1914-518 Petrography	4
1914-543 Advanced Mineralogy	3
1914-545 Optical Mineralogy	4
II. Geoscience Electives	11-13 semester hours
III. Research Requirement	
1914-650 Thesis	4
IV. Free Electives	6 semester hours
V. Comprehensive Examination	

Minimum: 32 semester hours

## HEALTH PROFESSIONS

Graduate Advisor and Department Chairman: Professor Harry H. Hoitsma

The graduate program, leading to a Master of Arts degree, provides advanced study for students preparing for positions in school and community health education programs.

Required and elective course work in the department of health professions, related courses in other departments in the College and a research experience culminating in the completion of a thesis and a comprehensive oral examination comprise the essential aspects of the program.

The variety of educational experiences provided in the program is offered in an effort to prepare school and community health educators for the health challenges of the future. The development of an historical perspective is provided along with an emphasis on specific contemporary health problems. The examination of recent developments in health education combines with the interpretation of important scientific advancement to form the foundational basis of this program.

### Admission Requirements

A major or minor in health education from an accredited college or university constitutes a minimum requirement for admission. Exception to this requirement can be made in the health education program for candidates with degrees in closely related areas. A candidate for the Master of Arts degree in Health Education should consult the appropriate graduate advisor before matriculation. The student with a minor or less preparation in health education must undertake designated prerequisites as part of his program. The student with a major in health education may be requested to undertake additional work where deficiencies are apparent. The prerequisite requirements will be in addition to the minimum 32 semester hour work program.

### Requirements for the Master of Arts Degree in Health Education

Basic Professional Education .....	6-9 semester hours
0824-503 Methods of Research (Required) .....	3
Specialization .....	12-20 semester hours
A. Core Courses Required of All Candidates .....	12 semester hours
0837-525 History and Foundations of Health .....	3
0837-526 Curriculum Development in Health Education .....	3
0837-528 Evaluation in Health .....	3
0837-603 Research Seminar in Health Education (Required of all candidates except those who enroll for 0826-650, Research Seminar and Thesis Writing) .....	3
B. Health Education Electives .....	0-8 semester hours
The selection of health education electives will be determined through advisement and will be based on the needs and interests of each individual.	
I. Free Electives .....	4-9 semester hours
Minimum: 32 semester hours	

## HOME ECONOMICS

Graduate Advisor and Department Chairman: Katharine B. Hall

The graduate program in home economics leads to the degree of Master of Arts in Home Economics. Individual programs can be structured from the courses offered to provide advanced specialized training needed for college and university teaching, for leadership positions in the various professions in business, for social welfare agencies, for public schools and adult education programs, for research and for extension services.

### Admission Requirements

Requirements for admission to graduate study are prescribed by the Graduate Division. A program is developed for each student depending on his or her individual professional goals. Students lacking adequate preparation may be required to take additional courses at the undergraduate level as prerequisites to graduate study.

### Requirements for the Master of Arts Degree in Home Economics

- |  |                    |
|--|--------------------|
| I. Required Courses  | 11 semester hours  |
| 1301-500 Contemporary Issues in Home Economics   | 2                  |
| 1301-509 Research Seminar  | 2                  |
| 1301-540 Interdisciplinary Study of the Family   | 2                  |
| 0824-503 Methods of Research   | 2                  |
| II. Professional Emphasis  | 9 semester hours   |
| Select from one of the following groups:   |                    |
| A. Home Economics Education  |                    |
| 1301-501 Seminar in Home Economics Education   | 2                  |
| 1301-503 Program Development in Family Life Education  | 2                  |
| 1301-505 Behavior Modification in Home Economics Programs  | 2                  |
| 1301-506 Supervision of Home Economics   | 2                  |
| 1301-403 Consumer Education Techniques   | 2                  |
| 1301-404 Evaluation in Home Economics  | 2                  |
| B. Home Management—Consumer Economics  |                    |
| 1301-530 Consumer Behavior   | 2                  |
| 1301-531 Family Financial Problems   | 2                  |
| 1301-532 Family and Consumer Economics   | 2                  |
| 1301-535 Consumer and Family Law   | 2                  |
| 1301-560 Housing the Family  | 2                  |
| 1301-570 The Management of Family Resources  | 2                  |
| 1301-571 Problem Solving in Family Counseling  | 2                  |
| 1301-572 Management Seminar  | 2                  |
| C. Family Relations—Child Development  |                    |
| 1301-514 The Child in the Family   | 2                  |
| 1301-542 Dynamics of Family Interaction  | 2                  |
| 1301-544 Intercultural Study of the Family   | 2                  |
| 1301-445 The Inner City Family   | 2                  |
| III. Home Economics Electives  | 3-9 semester hours |
| Each 500 level course has as its prerequisite a course satisfactorily completed within the last 5 years in the same area of study on the graduate or undergraduate level |                    |
| 1301-501 Seminar in Home Economics Education   | 2                  |
| 1301-502 Innovation in Instruction in Home Economics (formerly 1301-405)   | 2                  |
| 1301-503 Program Development in Family Life Education  | 2                  |
| 1301-505 Behavior Modification in Home Economics Program   | 2                  |
| 1301-514 Child in the Family   | 2                  |
| 1301-520 Clothing and Human Behavior   | 2                  |
| 1301-530 Consumer Behavior   | 2                  |

1301-531	Family Financial Problems .....	3
1301-532	Family and Consumer Economics .....	3
1301-535	Consumer and Family Law .....	3
1301-542	Dynamics of Family Interaction .....	3
1301-544	Intercultural Study of the Family .....	3
1301-560	Housing the Family .....	3
1301-570	The Management of Family Resources .....	3
1301-571	Problem Solving in Family Counseling .....	3
1301-572	Management Seminar .....	3
1301-580	New Findings in Nutrition .....	3
1301-403	Consumer Education Techniques .....	2
1301-404	Evaluation in Home Economics .....	3
1301-408	Workshop in Home Economics .....	3
1301-445	The Inner City Family .....	3
1301-508	Independent Study .....	1-3

V. Free Electives ..... 3-9 semester hours

'I. Comprehensive Examination, both oral and written, to be taken after completing 24 semester hours of graduate work.

'I. Candidates who choose to write a thesis will register for Graduate 600 for four semester hours credit.

Minimum: 32 semester hours



# INDUSTRIAL EDUCATION AND TECHNOLOGY

Graduate Advisor: Professor Arthur W. Earl

Department Chairman: Professor Arthur J. Rosser

Graduate study in industrial education and technology is designed to improve the professional training of industrial education teachers, to enhance their teaching proficiency through study of trends and developments in the fields, to improve the organization of the industrial arts laboratory and to provide a basis for work in administration and supervision. Emphasis is given to advanced work in industrial education and related fields which broaden professional experiences and accent industrial concepts.

Graduate programs of students matriculated in the department are tailored to the individual's needs through consultation with the graduate advisor.

Graduate students matriculated in the Master of Arts degree program who desire certification as a Coordinator of Cooperative Industrial Education can arrange their programs with the graduate advisor.

## Admission Requirements

Study toward the Master of Arts degree in industrial education and technology presupposes the completion of an undergraduate major in the same area. Individuals who have undergraduate majors in this area, but do not wish to work toward a degree, may enroll in graduate courses in the department.

## Requirements for the Master of Arts Degree in Industrial Research

I. Basic Professional Education .....	6-8 semester hours
0824-503 Methods and Instruments of Research .....	3
II. Free Electives .....	6-8 semester hours
III. Industrial Education specialization .....	18-20 semester hours
A. Professional Required .....	9
0996-502 Curriculum Construction and Course Organization	
in Industrial Education .....	3
0996-509 Industrial Education Facilities Planning .....	3
0996-607 Research Seminar in Industrial Education (Full Year) .....	3
B. Professional Electives .....	3-9 semester hours
0996-501 Historical and Contemporary Industrial Education Literature .....	3
0996-505 Supervision of Industrial Education .....	3
0996-606 Independent Studies in Industrial Education,	
I, II and III .....	1-3
C. Laboratory Electives .....	0-6 semester hours
0990-411 Design in Industry .....	3
0990-422 Engineering Graphics .....	3
0990-431 Offset Lithography .....	3
0990-432 Advanced Offset Lithography .....	3
0990-433 Color Photography .....	3
0990-441 Wood Technology .....	3
0990-442 Residential Construction .....	3
0990-451 Plastic Technology .....	3
0990-461 Metal Technology .....	3
0990-466 & 467 Welding Technology I & II .....	3
0990-471 Electronic Circuit Application .....	3
0990-472 Industrial Electronic Circuits .....	3
0990-481 Power Technology .....	3
0990-482 Fluid Power .....	3
0990-483 Fluidics .....	3
0990-491 Construction Technology .....	3
0990-492 Manufacturing Technology .....	3

## D. Field Experiences

0990-408	Field Studies of Industry .....	3
0990-409	Cooperative Industrial Work Experience .....	3

V. Comprehensive Examination: written and oral, scheduled during the Spring semester, required of all candidates for the Master of Arts degree except those who elect Graduate 600 Master's Thesis (4 semester hours).

## CERTIFICATION

The department offers two forms of certification through the Graduate Division:

1. Cooperative Industrial Education Coordinator
2. Post-Baccalaureate certification.

For more details, see certification section of this catalog or contact the graduate advisor in industrial education and technology.

# MATHEMATICS

Graduate Advisor: Professor William Parzynski  
Department Chairman: Professor James H. Stoddard

To meet the needs of graduate students interested in extensive study of mathematical theory or application, the department offers Master of Arts degrees in Pure and Applied Mathematics, Computer Science, and Statistics. To meet the needs of the teacher of mathematics, the department offers a Master of Arts degree in Mathematics Education, which is a special combination of courses in mathematics and mathematics education.

## Admission Requirements

A candidate for the Master of Arts degree in mathematics must consult the graduate advisor of the mathematics department before matriculation since the choice of graduate courses should be adjusted to the preparation acquired in undergraduate work. The student's work program, for a minimum of 32 semester hours of work, is prepared in consultation with the graduate advisor. At least 24 semester hours of the Master of Arts program should be at the 500 level. Changes in the work program are made only with the written approval of that advisor.

The candidate for the Master of Arts degree must present an undergraduate major of at least 30 semester hours in mathematics. Courses in engineering and science that have a substantial mathematical content may be submitted toward this requirement. Candidates whose undergraduate preparation is deficient in either depth or breadth may be required to complete certain prerequisites which will not carry graduate credit.

## Requirements for the Master of Arts Degree in Mathematics (Pure and Applied)

- I. Required: two one-year courses selected as follows: ..... 12 semester hours  
    Analysis: 1701-521, 522 or 1701-525, 526  
    Algebra: 1701-531, 532 or 1701-535, 536
- II. Mathematics Electives ..... 14 semester hours  
    Courses selected from: 1701-520 to 569 or  
                              1701-581 to 585 or  
                              1701-420 to 465  
    with at least 12 semester hours at the 500 level.
- III. Free Electives ..... 6 semester hours
- IV. Comprehensive Examination in Pure and Applied Mathematics  
    Minimum: 32 semester hours

## Requirements for the Master of Arts Degree in Mathematics (Statistics Concentration)

- I. Statistics Requirement ..... 15 semester hours  
    Courses selected from: 1701-540 to 549 or  
                              1701-440 to 443
- II. Mathematics Electives ..... 11 semester hours  
    Courses selected from: 1701-520 to 569 or  
                              1701-581 to 585 or  
                              1701-420 to 465  
    with at least 6 semester hours at the 500 level. Students must have credit for  
    1701-425, 426 and 1701-461 or equivalent.
- III. Free Electives ..... 6 semester hours
- IV. Comprehensive Examination in Statistics  
    Minimum: 32 semester hours

**Requirements for the Master of Arts Degree in Mathematics  
(Computer Science Concentration)**

- I. Required Courses ..... 12 semester hours  
Courses selected from 1701-461, 1701-560 or 1701-581 to 585
- II. Mathematics Electives ..... 14 semester hours  
Courses selected from 1701-520 to 569, 1701-581 to 585, or 1701-420 to 465, with at least 9 semester hours at the 500 level. The student must have credit in 1701-425, 426, 1701-431 or 1701-436, and 1701-440, 1701-443, or equivalent.
- III. Free Electives ..... 6 semester hours
- V. Comprehensive Examination in computer science.

Minimum: 32 semester hours

**Requirements for the Master of Arts Degree in Mathematics  
(Mathematics Education Concentration)**

- I. Pure and Applied Mathematics Required Courses ..... 14 semester hours  
(At least 9 semester hours from courses numbered 520 to 569, 581 to 585). Courses must be selected from at least 3 of the 5 areas:  
Algebra: 1701-431, 531, 532, 535, 536  
Analysis: 1701-420, 425, 426, 521, 522, 525, 526  
Probability and Statistics: 1701-440, 443, 540 to 549  
Geometry: 1701-450, 551, 554, 555  
Computers: 1701-461, 560, 581, 582
- II. Mathematics Education ..... 6 semester hours  
Two courses selected from 1701-570, 571, 572, 573, 574, 575
- III. Basic Professional Education ..... 6 semester hours
- V. Free Electives ..... 6 semester hours
- V. Comprehensive Examination in Mathematics and Mathematics Education.

Minimum: 32 semester hours



## MUSIC

Graduate Advisor: Professor Jack Sacher

Department Chairman: Professor Benjamin F. Wilkes

Graduate study in music offers three concentrations pointing to the degree of Master of Arts: applied music, theory-composition and music education.

Each is designed to provide the breadth and depth appropriate to its discipline. Applied music stresses performance; theory-composition stresses the structure of music and the creative process; music education pursues a variety of skills and seeks the breadth of understanding necessary for the music teacher in the American school.

Each concentration provides individual course election sufficient for additional emphasis, should the student desire it. Music history and literature and music and fine arts are examples of such emphases. Details may be arranged with the graduate advisor. Theory and applied music are required in all three concentrations.

### Admission Requirements

In addition to the general College graduate admission requirements stated in this bulletin (Admission to Graduate Study) all students must present an undergraduate major in music, understood to include at least 40 semester hours of music courses. They must be prepared to demonstrate competency acceptable to the department in a performing medium. Non-majors or pre-matriculated students should seek the advice of the graduate advisor for music.

Admission to courses in applied music is by permission, and must be arranged with the chairman of the department and the graduate advisor in the semester prior to the one in which applied music is to be studied.

Applicants to the applied music concentration must audition prior to the semester in which they seek full admission to the program. Auditions are scheduled with the graduate advisor after all appropriate transcripts have been received by the College. Applicants must present an undergraduate major in a specific medium or the equivalent of professional study and/or experience.

Applicants to the performance concentration arrange with the graduate advisor to audition before a faculty jury. Audition literature must represent significant solo literature from a variety of eras including the contemporary. Applicants majoring in orchestral instruments also present significant solo passages or ensemble passages from orchestral literature.

Applicants to the theory-composition concentration submit original composition totaling ten to fifteen minutes of performance in the semester prior to full matriculation.

Students are expected to obtain a copy of additional regulations (registration procedures, recitals, applied music fees, etc.) from the music department.

### Requirements for the Master of Arts Degree in Music (Concentration in Applied Music)

- I. Required Courses ..... 18 semester hours
  - A. Either of the following sequences:
    - 1004-504 and 505, or 1004-506, 507 and 508 ..... 1
    - B. Theory sequence 1016-511 and 1016-512 .....
- II. Electives in Music History or Literature ..... 8 semester hours
- III. Electives in general education (art, language, literature, history, philosophy, anthropology or sociology) selected with the advice of the graduate advisor for music ..... 6 semester hours
- IV. Recitals

Each candidate in applied music prepares two sixty-minute recitals during the period of course registration. One is performed publicly, the other either public

or before a faculty jury. In semesters in which no recital is given, a jury examination takes its place. Details regarding recital preparation should be obtained from the department of music.

**Requirements for the Master of Arts Degree in Music  
(Concentration in Theory-Composition)**

- I. Required Courses ..... 19 semester hours
  - A. Applied Music selected with the cooperation of the graduate advisor  
from 1004-500, 501, 502 or 503 ..... 2
  - B. Private study in composition 1016-518 or 519 ..... 6
  - C. Seminar or independent study in Historical Research  
1006-600 or 1006-604 ..... 3
  - D. Theory and Composition, including the sequence 1016-511 and 512 ..... 8
- II. Electives in general education (arts or humanities)  
selected with the advice of the graduate advisor ..... 5 semester hours
- III. Music Electives ..... 8 semester hours
- IV. Candidates compose a work in one of the larger forms for orchestra, vocal ensemble or chamber group and arrange a public performance.

**Requirements for the Master of Arts Degree in Music  
(Concentration in Music Education)**

- I. Required Courses ..... 13 semester hours
  - A. Applied Music selected with the cooperation of the chairman of the  
department from: 1004-500, 501, 502, 503 or 510B ..... 4
  - B. Education or Psychology ..... 3
  - C. Theory sequence 1016-511 and 512 ..... 6
- II. Music Education ..... 9 semester hours
- III. Electives in Humanities ..... 3 semester hours
- IV. Music Electives ..... 5 semester hours
- V. Comprehensive examination covering theory, pedagogy and music history/literature. Recognizing the wide array of skills demanded in music teaching, the department encourages students to explore new fields of applied music. Students are reminded that regulations for applied music and the comprehensive examination must be obtained separately from the graduate advisor.

## PHYSICAL EDUCATION

Graduate Advisor: Professor Hazel M. Wacker

Department Chairman: Professor George B. Pearson

The graduate program in physical education is designed to assist the student in gaining depth and understanding in his specialization. It provides a variety of opportunities for the student to assess the function of physical education in modern society through: the examination and evaluation of recent developments in education and the field of specialization; experimentation with new methods and techniques; the survey of current, as well as historical, documents.

### Admission Requirements

A bachelor's degree with a major or minor in physical education from an accredited college or university constitutes the minimum requirement for admission. A candidate for the Master of Arts degree should consult the graduate advisor before matriculation. The student may be requested to undertake additional work where deficiencies are apparent. These requirements will be in addition to the minimum 32 semester hours.

### Requirements for the Master of Arts Degree in Physical Education

- |   |                     |
|---|---------------------|
| I. Required Courses .....   | 9 semester hours    |
| 0835-503 Research Methods in Physical Education .....   | 3                   |
| 0835-579 Advanced Measurement and Evaluation in Physical Education .....                                      | 3                   |
| 0835-603 Research Seminar in Physical Education .....   | 3                   |
| II. Directed Electives .....  | 9 semester hours    |
| Select one course from each of the areas listed:  |                     |
| A. Foundations  |                     |
| 0835-504 Historical Foundations in Physical Education .....   | 3                   |
| 0835-575 Philosophical and Sociological Foundations of Physical Education ..                                  | 3                   |
| B. Curriculum and Methods   |                     |
| 0835-506 Physical Education Programs for Secondary Schools .....  | 3                   |
| 0835-576 Physical Education Programs for Elementary Schools .....   | 3                   |
| C. Administration and Supervision   |                     |
| 0835-508 Administration and Supervision of Athletics and Coaching .....                                       | 3                   |
| 0835-577 Administration and Supervision of Physical Education .....   | 3                   |
| III. Electives in Physical Education and Health Professions* .....  | 6-15 semester hours |
| 0835-416 Selected International Aspects of Physical Education .....   | 3                   |
| 0835-504 Historical Foundations in Physical Education .....   | 3                   |
| 0835-506 Physical Education Programs for Secondary Schools .....  | 3                   |
| 0835-508 Administration and Supervision of Athletics and Coaching .....                                       | 3                   |
| 0835-521 Coordination and Supervision of the Elementary and<br>Middle School Physical Education Program ..... | 3                   |
| 0835-530 Individualized Programs in Physical Education for the Handicapped ...                                | 3                   |
| 0835-531 Practicum in Physical Education for the Handicapped .....  | 3                   |
| 0835-532 Therapeutic Recreation .....   | 3                   |
| 0835-550 Survey of Literature and Trends in Physical Education .....  | 3                   |
| 0835-551 Philosophy of Recreation in School and Community .....   | 3                   |
| 0835-552 Seminar in Current Problems in Athletics .....   | 3                   |
| 0835-553 A Neurological Approach to Motor Learning and Performance .....                                      | 3                   |
| 0835-554 Orientation in Sports Medicine .....   | 3                   |
| 0835-555 Scientific Analysis of Sports and Physical Education Skills .....                                    | 3                   |
| 0835-556 The Psychological Basis of Motor Learning and Performance .....                                      | 3                   |

\*No more than 6 semester hours may be taken in health professions.

0835-557	Perceptual Motor Learning in Physical Education .....	3
0835-575	Philosophical and Sociological Foundations of Physical Education .....	3
0835-576	Physical Education Programs for Elementary Schools .....	3
0835-577	Administration and Supervision of Physical Education .....	3

1. Free Elective ..... 0-6 semester hours

. A comprehensive examination is required of all candidates for the Master of Arts degree. Exception: students may elect Thesis 600 (4 semester hours) in lieu of comprehensive examination and 0835-603 for a minimum of 32 semester hours.

Minimum: 32 semester hours



## PSYCHOLOGY

Graduate Advisor: Professor Abbie Shapiro-Salny

Department Chairman: Professor John Seymour

The department of psychology offers three distinct graduate programs and an interrelated program.

1. The Master of Arts in Educational Psychology aims to increase the student knowledge of the application of psychological theory to educational practice. A specialization in Human Sexuality is being offered as part of the program leading to Master of Arts in Educational Psychology.

2. The Master of Arts in Psychology is designed primarily as an intermediate degree. This program prepares for advanced studies in many psychological fields such as personality and counseling, school, social, industrial and developmental psychology.

3. The School Psychologist Certification Program is designed to meet the need for school psychologists by offering an integrated sequence of courses and supervise school, clinical and community experiences.

4. The Interrelated Program in Special Education and Special Pupil Services Teacher of the Emotionally and Socially Disturbed leads to the Master of Arts degree and eligibility to apply for New Jersey certification.

### Admission Requirements

Candidates for the Master of Arts in Psychology must meet the following departmental requirements:

1. 12 undergraduate credits in psychology.
2. A laboratory course in experimental psychology and a course in statistics.\*
3. Miller Analogies Test and the Advanced Psychology Test of the Graduate Record Examination.
4. Approval by the departmental committee.

Candidates for the School Psychologist Certification Program must meet the following departmental requirements:

1. The Miller Analogies Test and the advanced GRE in psychology or education.
2. Two additional letters of reference.
3. Approval by the departmental committee.

Candidates for the Interrelated Program in Special Education and Special Pupil Services must meet the following departmental requirements:

1. Miller Analogies Test.
2. Interview with and approval by the departmental committee.

3. Preparation in psychology and education courses is desirable. Students lacking minimal preparation will be required to take prerequisite courses. Teaching certification is not required.

Note: Minimum residency of one year and one summer is also required.

### Requirements for the Master of Arts Degree in Educational Psychology

I. Required Courses .....	15 semester hours
2001-510 Research Methods in Psychology .....	
2001-560 Advanced Educational Psychology .....	
2001-561 Developmental Psychology .....	
2001-578 Psychological Tests and Measurements .....	
2001-660 Seminar in Educational Psychology .....	

\*If the student lacks experimental psychology or statistics, he may be admitted as a pre-matriculated graduate student by including such requirements in his program, to be taken without credit.

I. Educational Foundations .....	6 semester hours
2001-538 Ethnopsychology (also 2202-538) .....	3
2001-553 Urban Psychology .....	3
2208-579 Community Resources and Youth .....	3
2202-534 Anthropology and Education .....	3
2202-535 Ethnology .....	3
II. Specialization .....	6 semester hours
2001-555 Psychological Aspects of Poverty .....	3
2001-564 Psychology and Education of the Physically and Mentally Handicapped .....	3
2001-565 Psychology and Education of the Socially and Emotionally Handicapped .....	3
2001-566 Psychology and Education of the Gifted .....	3
III. Electives .....	6 semester hours
2001-550 Quantitative and Statistical Methods .....	3
2001-552 General Social Psychology .....	3
2001-562 Dynamics of Human Behavior .....	3
2001-563 Theories of Learning .....	3
2001-573 Physiological Psychology .....	3
2001-580 Personality .....	3
2001-581 Motivation .....	3

## Examination

I. Thesis (with approval of advisor) .....	4
Minimum: 33 semester hours	

**Requirements for the Master of Arts Degree in Educational Psychology  
(Specialization in Human Sexuality)**

Required Courses .....	12 semester hours
2001-510 Research Methods in Psychology .....	3
2001-560 Advanced Educational Psychology .....	3
2001-561 Developmental Psychology .....	3
2001-660 Seminar in Educational Psychology .....	3
Foundations .....	6 semester hours
2202-538 Ethnopsychology .....	3
2001-553 Urban Psychology .....	3
2208-579 Community Resources and Youth .....	3
2202-535 Ethnology I .....	3
2001-446 Today's Woman .....	3
Specialization .....	15 semester hours
2001-548 Sex Education in Schools and Agencies .....	3
2001-542 Workshop in Psychology—Sex Education .....	3
2001-567 Abnormal Psychology .....	3
2001-580 Personality .....	3
2001-641 Perspectives in Human Sexuality .....	3
Electives .....	3 semester hours
2001-552 General Social Psychology .....	3
2001-566 Dynamics of Human Behavior .....	3
2001-578 Psychological Tests and Measurements .....	3
2001-573 Physiological Psychology .....	3
0401-540 Comparative Human Anatomy .....	4
2208-563 Self and Society .....	3
2208-573 The Family as an Institution .....	3

## Comprehensive Examination

Minimum: 36 semester hours

### Requirements for the Master of Arts Degree in Educational Psychology

#### (Interrelated Graduate Program in Special Education and Special Pupil Services: Teacher of the Emotionally and Socially Disturbed)

Program Coordinator and Graduate Advisor: Professor Walter R. Duryea

#### I. Basic Courses ..... 9 semester hours

Required—one of the following:

0824-A503	Methods and Instruments of Research	3
0824-A507	Measurement and Evaluation	3
2001-A510	Research Methods in Psychology	3
2001-A578	Psychological Tests and Measurements	3

Two of the following:

0808-A500	Nature of Reading	3
2001-A560	Advanced Educational Psychology	3
1220-A583	Language Disorders of Children	3

Electives approved by advisor may be taken in place of, or in addition to, required courses if equivalencies of the above are presented.

#### II. Core Courses ..... 9 semester hours

Required:

2001-A561	Developmental Psychology	3
2001-A565	Psychology and Education of the Socially and Emotionally Handicapped Child	3
1220-A620	Orientation and Observation in Special Education	3

Electives approved by advisor may be taken in place of, or in addition to, required courses if equivalencies of the above are presented.

#### III. Specialization ..... 20 semester hours

2001-540	Remedial Techniques with Emotionally Disturbed Children	3
2001-541	Curriculum Development and Methods of Teaching Inner-City Children	3
2001-545	Seminar in Emotional Disturbances of Children I	2
2001-546	Seminar in Emotional Disturbances of Children II	2
2001-553	Urban Psychology	3
2001-663	Independent Study	1
2001-664	Practicum in Teaching Emotionally Disturbed Children I	1
2001-665	Practicum in Teaching Emotionally Disturbed Children II	1

IV. Examination. A candidate is required to pass a written comprehensive examination prior to graduation.

Minimum: 38 semester hours

### Requirements for the Master of Arts Degree in Psychology

#### I. Required Courses ..... 13 semester hours

2001-520	Advanced General Psychology I	3
2001-521	Advanced General Psychology II	3
2001-550	Quantitative and Statistical Methods	3
2001-600	Thesis	4

#### II. Elective Courses ..... 15 semester hours

2001-551	Experimental Psychology	3
2001-552	General Social Psychology	3
2001-553	Urban Psychology	3
2001-554	Psychology in Business and Industry	3
2001-555	Psychological Aspects of Poverty	3
2001-561	Developmental Psychology	3
2001-563	Theories of Learning	3
2001-567	Abnormal Psychology	3
2001-568	Psychology of Group Dynamics	3
2001-573	Physiological Psychology	3



2001-578	Psychological Tests and Measurements .....	3
2001-579	Seminar in Psychological Tests and Measurements .....	3
2001-580	Personality .....	3
2001-581	Motivation .....	3
2001-582	Behavior Modification .....	3
2001-583	Sensation and Perception .....	3
2001-584	Comparative Psychology .....	3
2001-593	Clinical Interviewing .....	3
2001-663	Independent Study .....	3

III. Free Electives ..... 6 semester hours

IV. Comprehensive Examination: written examination precedes acceptance of a thesis outline and an oral examination at completion of thesis.

V. Department Colloquium: presentation of proposed theses and current research.  
Graduate students and faculty invited. Minimum: 34 semester hours

### Requirements for School Psychologist Certification

(N.J. State Certificate)

I. Educational Foundations ..... 12 semester hours

0821-521	Contemporary Educational Thought .....	3
2001-538	Ethnopsychology .....	3
2001-553	Urban Psychology .....	3
2001-555	Psychological Aspects of Poverty .....	3
2001-560	Advanced Educational Psychology .....	3
2001-660	Seminar in Educational Psychology .....	3
2002-535	Ethnology I .....	3
2208-565	Sociology of Youth .....	3

II. Education of the Handicapped ..... 6 semester hours

2001-564	Psychology and Education of the Physically and Mentally Handicapped .....	3
2001-565	Psychology and Education of the Socially and Emotionally Handicapped .....	3

III. Testing and Clinical Techniques ..... 25 semester hours

2001-510	Research Methods in Psychology .....	3
*2001-550	Quantitative and Statistical Methods .....	3
*2001-574	Individual Intelligence Testing .....	3
*2001-575	Projective Techniques I .....	3
*2001-576	Projective Techniques II .....	3
*2001-578	Psychological Tests and Measurements .....	3
2001-579	Seminar in Psychological Tests and Measurements .....	3
2001-590	Diagnostic Case Studies .....	3
*2001-593	Clinical Interviewing .....	3
2001-661	Practicum in School Psychology .....	3
*2001-662	School Psychologist Externship .....	3

IV. Personality and Behavioral Development ..... 12 semester hours

2001-561	Developmental Psychology .....	3
2001-563	Theories of Learning .....	3
2001-567	Abnormal Psychology .....	3
2001-573	Physiological Psychology .....	3
2001-580	Personality .....	3
2001-582	Behavior Modification .....	3

V. Electives: Select courses to balance the program, with permission of graduate advisor. Minimum: 60 semester hours

Interrelated Program in Special Education and Special Pupil Services: Teacher of the Socially and Emotionally Handicapped. See page 31.

\*Required for certification. See Director of Program for externship arrangements



## SOCIAL SCIENCES

Graduate Advisors: Professor Richard J. Barker, History  
 Professor Bertrand B. Boucher, Geography & Urban Studies  
 Professor Edward W. Johnson, Political Science  
 Professor Byong-Suh Kim, Sociology  
 Professor Lois A. More, Non-Western Cultures  
 Professor Bertha B. Quintana, Anthropology  
 Professor Margaret Reilly, Economics

The Master of Arts degree in social sciences offers concentrations in anthropology, geography, history, non-western cultures, political science, sociology and urban studies. Degree candidates do a major portion of their work and prepare for a final comprehensive examination in one of these individual fields. At present, the program is designed mainly for students who wish to work toward the degree on a part-time basis. Part-time students normally carry 6 hours per semester (9 hours maximum) during the regular academic year and are encouraged to attend the summer session of the College. For graduate students in residence, twelve to sixteen hours of work each semester is considered a full time program, with twelve hours recommended for graduate assistants. A limited number of graduate assistantships is available; for information write to the Dean of Graduate Studies.

### Admission Requirements

In addition to the general requirements for admission to the graduate program at Montclair State, candidates must present an undergraduate record showing a total of at least 30 semester hours in the social sciences and/or history. For candidates with weak undergraduate preparation in the field of concentration, prerequisite courses, not for graduate credit, may be required.

### Requirements for the Master of Arts Degree in Social Sciences (Concentration in Anthropology)

I. Required Courses .....	9 semester hours
*2202-531 Human Variation .....	3
*2202-535 Ethnology .....	3
At least one of the following:	
*2202-539 Prehistoric North America .....	3
*2202-540 Social Anthropology and History .....	3
*2202-541 Cognitive Anthropology .....	3
II. Anthropology Electives .....	6-9 semester hours
2202-532 Anthropology of Cities .....	3
2202-533 Spanish Cultural Influences in the U.S. ....	3
2202-534 Anthropology and Education .....	3
2202-536 Cultural Diversity .....	3
2202-537 Cultural Stability and Change .....	3
2202-538 Ethnopsychology .....	3
2202-539 Prehistoric North America .....	3
2202-540 Social Anthropology and History .....	3
2202-541 Cognitive Anthropology .....	3
2202-601 Independent Anthropological Research .....	3
III. Related Social/Behavioral Science and/or History Electives ....	6-9 semester hours
IV. Free Electives .....	6 semester hours

\*Anthropology elective may be substituted for candidates with prior equivalent course experience.

- V. Reading Seminar and Comprehensive Examination ..... 2 semester hours  
 4905-603 Independent study in preparation for written examination given  
 in March and October. In special cases, candidates may register for Depart-  
 mental 600, Thesis ..... 4  
 in lieu of the comprehensive examination.

Minimum: 32 semester hours

### **Requirements for the Master of Arts Degree in Social Sciences (Concentration in Economics)**

The concentration in economics is currently under revision. Candidates interested in economics as an area of concentration should contact the chairman of the department for information.

It is highly recommended that candidates for the concentration in geography should have an undergraduate major or minor in geography or its equivalent from a recognized college or university. For candidates without this background it may be necessary for them to make up deficiencies in their undergraduate programs.

- I. Required for all but undergraduate economics majors:  
 2204-501 Economics Analysis ..... 3
- II. Economics Electives
- |   |   |
|---|---|
| 2204-508 Economics of Public Management .....               | 3 |
| 2204-540 Development in Economic Education .....            | 3 |
| 2204-541 Foundations of Contemporary Economic Thought ..... | 3 |
| 2204-542 Economic Fluctuations and Forecasting .....        | 3 |
| 2204-543 United States in the World Economy .....           | 3 |
| 2204-544 Government and Business .....                      | 3 |
| 2204-545 Economics of Labor .....                           | 3 |
- II. Related Social/Behavioral Science and/or History ..... 6-9 semester hours
- V. Free Electives ..... 6 semester hours
- V. Reading Seminar and Comprehensive Examinations ..... 2 semester hours  
 4905-603 Independent study in preparation for written examination  
 given in March and October.

Minimum 32 semester hours

### **Requirements for the Master of Arts Degree in Social Sciences (Concentration in Geography)**

- I. Required Courses ..... 6 semester hours
- |   |   |
|---|---|
| 2206-520 Geography: Theory and Application .....                  | 3 |
| 2206-521 Applied Geography: Research Methods and Techniques ..... | 3 |
- II. Geography Electives ..... 9-12 semester hours
- |   |   |
|---|---|
| 2206-501 Environmental Geography .....        | 3 |
| 2206-502 Problems in Economic Geography ..... | 3 |
| 2206-503 Culture Regions .....                | 3 |
| 2206-504 Pro-Seminar .....                    | 3 |
| 2206-509 Water Resource Systems .....         | 3 |
| 2206-510 Urban Systems and Planning .....     | 3 |
- II. Related Social/Behavioral Science and/or History Electives ..... 6-9 semester hours
- V. Free Electives ..... 6 semester hours
- V. Reading Seminar and Comprehensive Examination ..... 2 semester hours  
 4905-603 Independent study in preparation for written examination given in  
 March and October. In special cases, candidates may register for  
 Departmental 600 Thesis ..... 4  
 in lieu of the comprehensive examination

Minimum: 32 semester hours

**Requirements for the Master of Arts Degree in Social Sciences  
(Concentration in Urban Studies)**

- I. Required Courses** ..... 9 semester hours
- 4905-550 Urban Contexts—A Holistic View ..... 3
- 4905-551 Functional Characteristics of Cities ..... 3
- 4905-610 Urban Studies Seminar ..... 3
- To be taken only after the candidate has completed 4905-550, 551  
and 9 semester hours of Urban Studies electives.
- II. Urban Studies Electives** ..... 9 semester hours
- 2001-553 Urban Psychology ..... 3
- 2001-532 Anthropology of Cities ..... 3
- 2001-545 Economics of Labor and Manpower ..... 3
- \*2001-518 Urban History: National Trends in New Jersey Cities ..... 3
- 2001-510 Urban Systems and Planning ..... 3
- 2001-521 Applied Geography: Research Methods and Techniques ..... 3
- 2001-501 Public Administration and Public Policy ..... 3
- 2001-566 The Metropolitan Community ..... 3
- 2001-573 Sociology of City Sub-Areas ..... 3
- 2001-579 Community Resources and Youth ..... 3
- III. Related Social/Behavioral Sciences and/or History Electives** ..... 6 semester hours
- Free Electives** ..... 6 semester hours
- Reading Seminar and Comprehensive Examination ..... 2 semester hours
- 4905-603 Independent study in preparation for written examination  
given in March and October. In special cases, candidates may  
register for Departmental 600 Thesis ..... 4  
in lieu of the comprehensive examination.
- \*Recommended Minimum: 32-34 semester hours

**Requirements for the Master of Arts Degree in Social Sciences  
(Concentration in History)**

- I. Required Courses** ..... 3 semester hours
- 2205-501 New Interpretations in History ..... 3  
or
- 2205-502 History and the New Social Studies ..... 3
- II. History Electives** ..... 12-15 semester hours
- 2205-501 New Interpretations in History ..... 3
- 2205-502 History and the New Social Studies ..... 3
- 2205-511 Seminar in American Colonial History ..... 3
- 2205-512 The American Revolution, 1763-87 ..... 3
- 2205-513 Problems of the New Nation, 1789-1828 ..... 3
- 2205-517 Age of Franklin D. Roosevelt ..... 3
- 2205-518 Urban History: National Trends in N.J. Cities ..... 3
- 2205-519 The U.S. in the Nuclear Age ..... 3
- 2205-520 United States-Far Eastern Relations ..... 3
- 2205-521 Civil War and Revolution in Chinese History ..... 3
- 2205-522 Revolutionary Russia, 1905-21 ..... 3
- 2205-523 History of Soviet Diplomacy ..... 3
- 2205-526 The Industrialization of America, 1865-1900 ..... 3
- 2205-527 The Industrialization of Europe ..... 3
- 2205-529 Europe of the Dictators, 1919-39 ..... 3
- 2205-530 Nationalism in Modern India ..... 3
- 2205-532 Modernization in Japanese Cultural History ..... 3
- 2205-533 French Revolution and Napoleon ..... 3
- 2205-534 France of the Republics ..... 3
- 2205-537 19th Century European Intellectual History ..... 3



III. Related Social/Behavioral Science Electives .....	6 semester hours
IV. Free Electives .....	6 semester hours
V. Reading Seminar and Comprehensive Examination .....	2 semester hours
4905-603 Independent study in preparation for written examination given in March and October. In special cases, candidates may register for Departmental 600 Thesis .....	4 in lieu of the comprehensive examination.
Minimum: 32 semester hours	

**Requirement for the Master of Arts Degree in Social Sciences  
(Concentration in Non-Western Cultures)**

I. Required Courses .....	15-18 semester hours
2202-535 Ethnology .....	3
or	
2202-536 Cultural Diversity .....	3
And at least two of the following:	
2205-520 United States-Far East Relations .....	3
2205-521 Civil War and Revolution in Chinese History .....	3
2205-530 Nationalism in Modern India .....	3
2205-532 Modernization in Japanese Cultural History .....	3
And one of the following:	
2207-523 The Politics of Developing Areas .....	3
2207-524 Africa and Asia in World Politics .....	3
II. Related Social/Behavioral Science and/or History Electives .....	6-9 semester hours
2202-537 Cultural Stability and Change .....	3
2202-540 Social Anthropology and History .....	3
2206-503 Culture Regions .....	3
2208-567 Power and Social Stratification .....	3
II. Free Electives .....	6 semester hours
V. Reading Seminar and Comprehensive Examination .....	2 semester hours
4905-603 Independent study in preparation for written examination given in March and October. In special cases, candidates may register for Departmental 600 Thesis .....	4 in lieu of the comprehensive examination.
Minimum: 32 semester hours	

**Requirement for the Master of Arts Degree in Social Sciences  
(Concentration in Political Science)**

I. Required Courses .....	3 semester hours
2207-502 Modern Political Analysis .....	3
II. Political Science Electives .....	12-15 semester hours
2207-501 Public Administration and Public Policy .....	3
2207-512 Origin and Development of the Constitution .....	3
2207-521 History of Political Thought .....	3
2207-522 Great Britain and the Commonwealth .....	3
2207-523 Politics of Developing Areas .....	3
2207-524 Africa and Asia in World Politics .....	3
2207-551 Contemporary Constitutional Law .....	3
2207-552 The President and the Congress .....	3
2207-553 The Federal Courts .....	3
2207-554 American Political Thought .....	3
I. Related Social/Behavioral Science and/or History Electives .....	6-9 semester hours
II. Free Electives .....	6 semester hours



- V. Reading Seminar and Comprehensive Examination ..... 2 semester hours  
 4905-603 Independent study in preparation for written examination  
 given in March and October. In special cases, candidates  
 may register for Departmental 600 Thesis ..... 4  
 in lieu of the comprehensive examination.

Minimum: 32 semester hours

**Requirements for the Master of Arts Degree in Social Sciences  
 (Concentration in Sociology)**

- I. Required Courses ..... 9 semester hours  
 2208-560 Sociological Theory ..... 3  
 2208-568 Seminar: Sociological Research Methods I ..... 3  
 2208-571 Seminar: Sociological Inquiry ..... 3
- II. Sociology Electives ..... 9 semester hours  
 2208-559 Sociology of Deviance ..... 3  
 2208-561 The Construction of Social Theory ..... 3  
 2208-562 Social Change ..... 3  
 2208-563 Self and Society ..... 3  
 2208-564 Social Planning ..... 3  
 2208-565 Sociology of Youth ..... 3  
 2208-566 The Metropolitan Community ..... 3  
 2208-567 Power and Social Stratification ..... 3  
 2208-569 Seminar: Sociological Research Methods II ..... 3  
 2208-570 Independent Project ..... 3  
 2208-572 Selected Problems in Sociology ..... 3  
 2208-573 Sociology of City Sub-Areas ..... 3  
 2208-574 Sociology of Cultural and Ethnic Groups ..... 3  
 2208-575 Sociology of Voluntary Membership Institutions ..... 3  
 2208-576 The Family as an Institution ..... 3  
 2208-577 Sociology of Poverty in the U.S. .... 3  
 2208-579 Community Resources and Youth ..... 3
- III. Related Social/Behavioral Science and/or History Electives ..... 6 semester hours
- IV. Free Electives ..... 6 semester hours
- V. Reading Seminar and Comprehensive Examination ..... 2 semester hours  
 4905-603 Independent study in preparation for written examination  
 given in March and October. In special cases, candidates  
 may register for Departmental 600 Thesis ..... 4  
 in lieu of the comprehensive examination.

Minimum: 32 semester hours

## SPANISH

Graduate Advisor: Professor John E. Hwang

Department Chairman: Professor Norman Fulton

The program is designed to prepare students for careers in teaching, for research in language and literature, and for other professional positions demanding a knowledge of Spanish: interpreters; translators; consular service and diplomatic service in Spanish-speaking countries; Spanish newspaper and magazine editors and organizers of projects for Spanish-speaking communities; representatives of commercial companies in Spain and Spanish America. The Master of Arts degree opens opportunities to teach in high school and community colleges.

### Admission Requirements

The Master of Arts program in Spanish is open to students who have completed at least 24 semester hours or the equivalent of undergraduate Spanish and hold a bachelor's degree. These students must take the Graduate Record Examination in Spanish prior to acceptance into the program.

Students who hold a bachelor's degree or its equivalent may enroll in graduate courses without obligation to follow a Master's degree program, if they have 24 credit hours or the equivalent in Spanish.

After acceptance, candidates will consult the graduate advisor to plan their programs.

### Requirements for the Master of Arts Degree in Spanish

I. Required Courses	5 semester hours
1105-505 History of the Spanish Language	3
*1105-603 Research	2
II. Major Field of Specialization*	18 semester hours
III. Minor Field of Specialization*	9 semester hours
Peninsular Area	
1105-516 Medieval Spanish Literature to Fifteenth Century	3
1105-521 Pre-Renaissance and <b>Pre-Lopista</b> Theater	3
1105-522 Theater of the Golden Age	3
1105-523 Prose and Poetry of the Golden Age	3
1105-524 Cervantes	3
1105-525 <b>La Ilustración</b> and Romanticism	3
1105-526 Realism in Spain	3
1105-527 The Generation of '98	3
1105-533 Contemporary Spanish Theater	3
1105-534 Spanish Prose of the Twentieth Century	3
1105-535 Contemporary Spanish Poetry	3
Spanish-American Area	
1105-540 Colonial Spanish-American Literature	3
1105-541 Spanish-American Literature of the Nineteenth Century	3
1105-542 Spanish-American Novel of the Twentieth Century	3
1105-543 Spanish-American Theater of the Twentieth Century	3
1105-546 <b>Modernismo</b> in Spanish America	3
1105-548 Contemporary Spanish-American Novel	3
1105-549 Contemporary Spanish-American Short Story	3
1105-551 Contemporary Spanish-American Poetry	3
1105-560 Topics in Spanish-American Literature	3

\*Students interested in writing a thesis should consult the graduate advisor. A thesis carries 4 semester hours credit.

\*Students elect either Peninsular or Spanish-American area as a major; the other area becomes a minor

IV. Upon completion of 32 semester hours, the candidate will apply for the comprehensive examination, with the understanding that he will devote either one semester or a summer preparing for the examination.

The written examination of 9 hours, offered in April and November, covers the history of the Spanish language, literature of Spain and literature of Spanish America. The 9 hours are divided between the major and minor areas on separate test days one week apart.

Minimum: 32 semester hours

## **INTERRELATED GRADUATE PROGRAMS IN SPECIAL EDUCATION**

Coordinator: Professor Harld Scholl (Communication Sciences and Disorders)  
Graduate Advisors: Professor Terry Schon (Audiology and Teacher of the Deaf)  
Professor Warren Heiss (Teacher of the Handicapped and Learning Disabilities)  
Professor Walter R. Duryea (Teacher of the Socially and Emotionally Handicapped)  
Professor Maria Schantz (Reading)

An interrelated program, administered by a coordinating committee, has been established to epitomize the professional team interaction concept and to minimize the fragmentation of special programs as they are so often constituted. Specialists who train together and learn together, will hopefully be able to work together in the interests of providing the best possible education for handicapped children. We feel that it is only through developing an understanding of, and appreciation for, what each specialist has to contribute that true cooperation among professional workers will be realized.

All students in the interrelated programs in special education take the same 17 semester hours in basic and core courses. An additional 21 semester hours are taken in the field of specialization.

The programs in special education are described in the catalog under the department in which the concentration is administered. All inquiries and initial interviews should be with the Coordinator of the Special Education programs.

### **Specialization:**

Speech Pathology  
The Hard of Hearing and the Deaf  
Learning Disabilities  
Emotionally Disturbed

### **Refer to:**

pages 28, 29  
pages 28, 30  
pages 28, 30  
pages 31, 56



## SPEECH AND THEATER

Graduate Advisor: Professor Clyde W. McElroy

Department Chairman: Professor Karl R. Moll

Graduate students may pursue a Master of Arts degree to enrich professional activity, prepare for further graduate study or increase their skills as speech and theater teachers.

The program is flexible and the candidate may concentrate in one of three areas: theater, speech, and public media arts. A student may also work in all areas if he wishes. The latter approach is frequently used by the graduate who is a secondary school teacher. Graduate students will consult with the graduate advisor in selecting courses that will best prepare them in their areas of concentration.

The department's facilities include a 1,000-seat major theater and a flexible studio theater, both with remote-control pre-set switchboards; a well-equipped scene shop; extensive costume and prop collections, with work rooms; expanding television and film workshop studios and extensive recording and playback equipment.

### Admission Requirements

Students wishing to matriculate as speech and theater majors must have completed a major or the equivalents from the following areas: theater, oral interpretation, speech, or mass communication. It is assumed that most of this work will have been in the area selected for graduate concentration. Some students may need to improve their preparatory backgrounds through undergraduate courses for which credit is not given.

### Requirements for the Master of Arts Degree in Speech and Theater

I. Core Courses .....	7-9 semester hours
1506-501 Survey of Research Methods .....	3
0603, 1007 or 1506-600 Thesis .....	4
or non-thesis option: selected courses recommended by Graduate Committee .....	6
II. Elective Courses within the Concentration .....	19 semester hours

### (Concentration in Theater)

Emphasis in either Technical Theater or Acting/Directing

1007-500 Independent Study .....	By arrangement
1007-504 Contemporary Experimental Theater .....	3
1007-507 Seminar in Dramatic Production .....	3
1007-508 Internship in Dramatic Production .....	3-7
1007-513 Modern and Contemporary Theater History .....	3
1007-514 Non-Western Drama and Theater .....	3
1007-517 Theater Criticism .....	3
1007-525 Advanced Acting Workshop .....	3
1007-535 Advanced Directing Workshop .....	3
1007-545 Scenic Design I: The Legitimate Theater .....	3
1007-546 Scenic Design II: The Performing Arts .....	3
1007-554 Stage Lighting Design .....	3
1007-555 Advanced Problems in Technical Production .....	3
1007-575 Seminar in Costume Design & Construction .....	3
1007-580 Theater Management .....	3
1007-599 Independent Study .....	By arrangement
1007-600 Thesis .....	4
1506-504 Advanced Applied Phonetic Study .....	3
1506-509 Special Problems in Speech and Theater .....	3
1506-565 Advanced Oral Interpretation .....	3

**(Concentration in Speech)**

1506-500	Independent Study .....	By arrangement
1506-501	Survey of Research Methods .....	3
1506-503	Advanced Voice and Speech Improvement .....	3
1506-504	Advanced Applied Phonetic Study .....	3
1506-509	Special Problems in Speech and Theater .....	3
1506-511	Revolutionary Rhetoric .....	3
1506-519	Seminar in Rhetorical Criticism .....	3
1506-521	Competitive Forensics .....	3
1506-533	Lecture and Lecture Recital .....	1
1506-536	Seminar in Persuasion .....	3
1506-560	Internship in Oral Communication .....	3-7
1506-565	Advanced Oral Interpretation .....	3
1506-599	Independent Study .....	By arrangement
1506-600	Thesis .....	4
0603-581	The Broadcast Media and Mass Culture .....	3

**(Interdisciplinary Concentration in Public Media Arts)**

A study of the forces affecting the exchange of information with the public and the techniques utilized in transmission.

0603-500	Independent Study .....	By arrangement
0603-580	Internship in Public Media Arts .....	3-7
0603-581	The Broadcast Media and Mass Culture .....	3
0603-582	Techniques of Broadcast Communication .....	3
0603-599	Independent Study .....	By arrangement
0603-600	Thesis .....	4
1506-511	Revolutionary Rhetoric .....	3
1506-519	Seminar in Rhetorical Criticism .....	3
1506-533	Lecture and Lecture Recital .....	1

In addition, the graduate student in this concentration should select six to nine hours of related graduate courses from the total College offerings, with the advisor's permission. Prerequisites required in these courses can be taken as free electives. Typical choices are:

1510-512	History of the English Language
1015-525	An Ethnological Approach to Music
2001-552	General Social Psychology
2001-562	Dynamics of Human Behavior
2001-582	Behavior Modification
2202-538	Ethnopsychology
2207-502	Modern Political Analysis
2208-560	Sociological Theory
2208-562	Social Change

III. Free Electives ..... 6 semester hours  
Can be utilized as necessary for graduate course prerequisites and/or professional education courses.

IV. Additional departmental requirements:

1. Written Comprehensive Examination
2. Demonstration of oral competence: candidate must demonstrate proficiency in handling speech in a public situation.

Minimum: 32 semester hours

## STUDENT PERSONNEL SERVICES

Graduate Advisors: Guidance and Counseling: Professor George G. King

School Social Work: Professor Robert B. Williams  
Professor Thomas L. Millard

Human Organizational Development: Professor Alfred H. Gorman

Department Chairman: Professor George G. King.

Counseling and personnel services have become an integral part of the American scene. Schools and colleges, community agencies and industry, and State and Federal governments have all developed services to aid students, workers and others to adjust to a changing society. Montclair State College has been a leader in the state in preparation of counselors to staff these efforts, in developing programs to identify new areas of counseling service, and in providing new approaches to the training of counselors.

Utilizing the resources identified through outreach programs, the department provides courses to train counselors to work with inner-city youth, Black and Puerto Rican communities, Veterans, prisoners and re-entry adult learners. Building blocks of courses around the unique needs of specialized groups, the department offers bi-lingual programs for Spanish-speaking counselors, a complete degree program in Ocean County for residents of that area, and other programs tailored to specific needs.

A major sub-specialty offers selected students the opportunity to complete a program in Human Organizational Processes. H.O.P. prepares students for leadership roles in a variety of areas in which personal awareness, skills in leading groups, and facilitation of communication within and among groups are required.

Completion of the Master of Arts program usually provides basic certification as a School Guidance Counselor.

Students may also complete the certification for School Social Workers as part of the Student Personnel Department offerings.

Students holding Master's degrees may be admitted to the department's Education Specialist Program. This 30 semester hour post-master's program enables the student to qualify for roles such as Director of Pupil Personnel Services in high schools, or student personnel workers in higher education.

### Admission Requirements

All students must meet the admission requirements for graduate study at Montclair State College. In addition, they must be interviewed and accepted for matriculation by the Student Personnel Services faculty.

A student accepted for the Master of Arts program will be assumed to be accepted for admission to the advanced programs of this department upon completion of the requirements for the Master of Arts Degree.

Students anticipating application for state school certificates must have acquired a permanent state teachers certificate and at least one full year of professional teaching experience before completion of the degree requirements.

### Requirements for the Master of Arts Degree in Student Personnel Services

Complete a departmentally approved work program.

Complete a research document.

Complete a full semester of intern and practicum experience.

Pass a Comprehensive Examination.



## TEACHING

Graduate Advisor: Professor Joseph L. Venturini

Certification Advisor: Simone Picard (Graduate Office)

Department Chairman: Professor Anita Uhia

The program is designed to enable a candidate with a baccalaureate degree and an interest in teaching to earn the Master of Arts degree and a Teaching Certificate simultaneously. Curricula for standard teaching fields and special urban programs are available.

The program is open to students with undergraduate background equivalent to a teaching field in one of the following areas: fine arts, business education (bookkeeping and accounting, distributive education, general business education, secretarial studies), English, foreign languages (French, Spanish), home economics, industrial education and technology, mathematics, music, health and/or physical education, science, social sciences, speech and theater. Additional undergraduate course work in the student's teaching field may be required to meet certification standards.

Upon successful completion of the program, the student will be recommended to the New Jersey Department of Education for a Teaching Certificate. Although students interested in teaching elsewhere should seek information from the appropriate state authorities, requirements are generally similar.

### Admission Requirements

In addition to the general requirements for admission and matriculation for the Master's degree, the applicant must file a separate application to the Teacher Education Program by contacting the Graduate Advisor in the School of Education. Admission to the College **cannot** be considered admission to Teacher Education.

Criteria considered for admission are:

1. Three recommendations, two of which are from college faculty or school administrators.
2. Verification of demonstrated competence in speech by the department of speech and theater.
3. Cumulative undergraduate grade point average of at least 2.67 and a qualifying score on the aptitude section of the Graduate Record Examination.
4. Evidence of active interest in community affairs in teaching.
5. Clearance by the Student Personnel Division. (for MSC BA/BS graduates only)
6. Endorsement of the Teacher Admissions Committee (Departmental and School of Educational and Community Services).

### Advisement

Persons interested in the program may secure information from their designated advisors. Upon acceptance, the student will be assigned a School of Education advisor who will cooperatively develop a formal program of course work with a departmental (teaching field) advisor and advise the student continuously. For information about certification in New Jersey, the student may confer with the advisor for certification programs.

### Requirements for the Master of Arts Degree in Teaching

- |  |                    |
|--|--------------------|
| I. Professional Sequence .....                               | 7-9 semester hours |
| A. Prerequisites   |                    |
| 2001-101 General Psychology I Growth and Development .....   | 3                  |
| (undergraduate credit only)                                  |                    |
| 2001-200 Educational Psychology .....                        | 3                  |
| (undergraduate credit only)                                  |                    |
| 0829-410 Field Experiences in Education, or equivalent ..... | 1-3                |



- B. Required Courses ..... 9 semester hours
- Major Department Teaching Methods ..... 3
- 0829-400 Teacher, School and Society ..... 3
- Educational Foundations Elective ..... 3
- II. Education Sequence\* ..... 13 semester hours
- A. 0829-564 Dynamics of Group Processes ..... 3
- and one of the following:
- 0829-503 Methods of Research
- or
- 0829-504 Action Research for Teachers ..... 3
- B. School of Education electives ..... 6 semester hours
- Seminar in Problems of Classroom Technique ..... 1
- Graduate courses offered by the School of Educational and Community Services, not specifically designed for preparation or certification in some other area of education, selected with approval of the departmental advisor.
- III. Teaching Discipline Courses ..... 6-9 semester hours
- Graduate courses in the teaching discipline which are covered by the certificate or serve other needs and interests of the student, are selected with approval of the departmental advisor.
- IV. Cultural Electives ..... 3-6 semester hours
- With approval of the advisor, the student selects courses outside the School of Educational and Community Services and the teaching field, to extend or broaden his general education.
- V. Field Experience (Practicum) ..... 8 semester hours
- 0829-411 Supervised Student Teaching
- or
- 0829-416 Professional Teaching Semester\*\*
- Minimum: 42 semester hours

\*If, in the opinion of the Dean of the School, the student has essentially achieved the objectives of part of the program, that portion of the requirements may be waived. However, the number of graduate credits may not be reduced below 32, and other requirements of the College still apply.

\*\*Preferred option.

# APPROVED CERTIFICATION PROGRAMS NON-DEGREE POST-BACCALAUREATE/POST-M.A.

## I. Teacher Certification

This program enables a student with a baccalaureate degree to obtain a N.J. teaching certificate. Students planning to enter the teacher certification program must follow prescribed admission procedures. Admission to the College cannot be considered admission to the teacher certification program. Criteria for admission to the program are as follows:

1. Three favorable recommendations from individuals aware of applicants' scholastic aptitude and character.
2. Demonstration of competence in speech.
3. Cumulative average of at least 2.45 based on a 4.00 scale.
4. Evidence of active interest in community affairs and teaching.
5. Acceptance by a faculty admissions committee.

The program is open to students with undergraduate background equivalent to a teaching field in one of these areas: fine arts, business education (bookkeeping and accounting, general business education, distributive education, secretarial studies), English, foreign languages (French, German, Latin, Spanish), home economics, industrial education and technology, mathematics, music, nursery school education, health and/or physical education, science, social sciences, speech and theater.

Upon successful completion of the program, the student will be recommended to the N.J. Department of Education for a teaching certificate. Students interested in teaching out of New Jersey should seek information from the appropriate state authorities. In general, however, requirements are similar.

## Advisement

Persons interested in the program may secure information from program advisors. Upon acceptance, a student will be assigned a School of Education advisor who will cooperatively develop a formal program of studies with a departmental (teaching field) advisor. Continuous advisement is available to students. For information about certification in New Jersey, the student may confer with the advisor for certification programs.

## Requirements for Teacher Certification

2001-101	General Psychology I: Growth and Development .....	3
2001-200	Educational Psychology .....	3
0829-410	Field Experience in Education or equivalent .....	1-3
	Major Department Teaching Methods .....	3
0829-400	Teacher, School and Society .....	3
0821	Educational Foundations Elective .....	3
0829-421	Seminar in Problems of the Classroom Teacher .....	1
0829-411	Supervised Student Teaching or .....	
0829-416	Professional Teaching Semester* .....	8
	Teaching Field (with departmental advisement)	

Minimum: 25 semester hours

\*Preferred option

## Teacher Certification Areas

A. Business Education: General Business Studies and Accounting, General Business and Secretarial Studies, General Business and Distributive Education

B. Communication Sciences and Disorders: Speech Correction, Deaf and Hard of Hearing, Teacher of the Handicapped

C. English

D. Fine Arts

E. Foreign Languages (French, German, Latin, Spanish)

F. Health and/or Physical Education

G. Home Economics

H. Industrial Education and Technology: Industrial Education and Technology (academic background), Industrial Education and Technology (experience background), Vocational/Technical Education\*

I. Mathematics

J. Music

K. Nursery School Education—preschool/kindergarten

L. Science (biology, chemistry, geoscience, physics)

M. Social Studies

N. Speech and Theater

II. Advanced Certification (Post-Masters)

State certification is available in the following non-teaching educational specializations:

A. Administration and Supervision: Supervisor, Principal, Superintendent

B. Learning Disabilities Teacher Consultant

C. Student Personnel Services

III. Other Fields/Endorsements

Professional or State certification is available in the following areas:

A. Coordinator Industrial Education (for further information see p. 46, 47)

B. Music Therapy

C. Reading (for further information see p. 34)

D. School Business Administrator

E. School Psychologist (for further information see p. 54, 57)

F. School Social Worker

G. Teacher Librarian

**GRADUATE FACULTY****School of Education**

ANISA AL-KHATAB

Education

Ed.D., Columbia University

LAURENCE BELLAGAMBA

Education

Ed.D., Columbia University

CATHERINE BECKER

Education

Ph.D., New York University

GEORGE BERNSTEIN

Education

Ph.D., Columbia University

SUSIE BOYCE

Education

Ed.D., Rutgers University

ANNE C. CASTENS

Education

Ed.D., Rutgers University

FRANCESCO CORDASCO

Education

Ed.D., New York University

J. THOMAS FLAGG

Education

Ed.D., Rutgers University

JOSEPH FREEMAN

Education

Ph.D., University of Arizona

ABRAHAM GELFOND

Education

Ph.D., University of Michigan

ALFRED GORMAN

Education

Ed.D., Columbia University

DONALD B. GREGG

Education

Ed.D., Lehigh University

RONALD HAAS

Education

Ed.D., Rutgers University

RICHARD GREY

Education

Ed.D., Fordham University

LAWRENCE B. HAMEL

Education

Ph.D., St. John's University

GEORGE D. HEISS

Education

Ed.D., Rutgers University

DANIEL KUNZ

Education

Ed.D., Rutgers University

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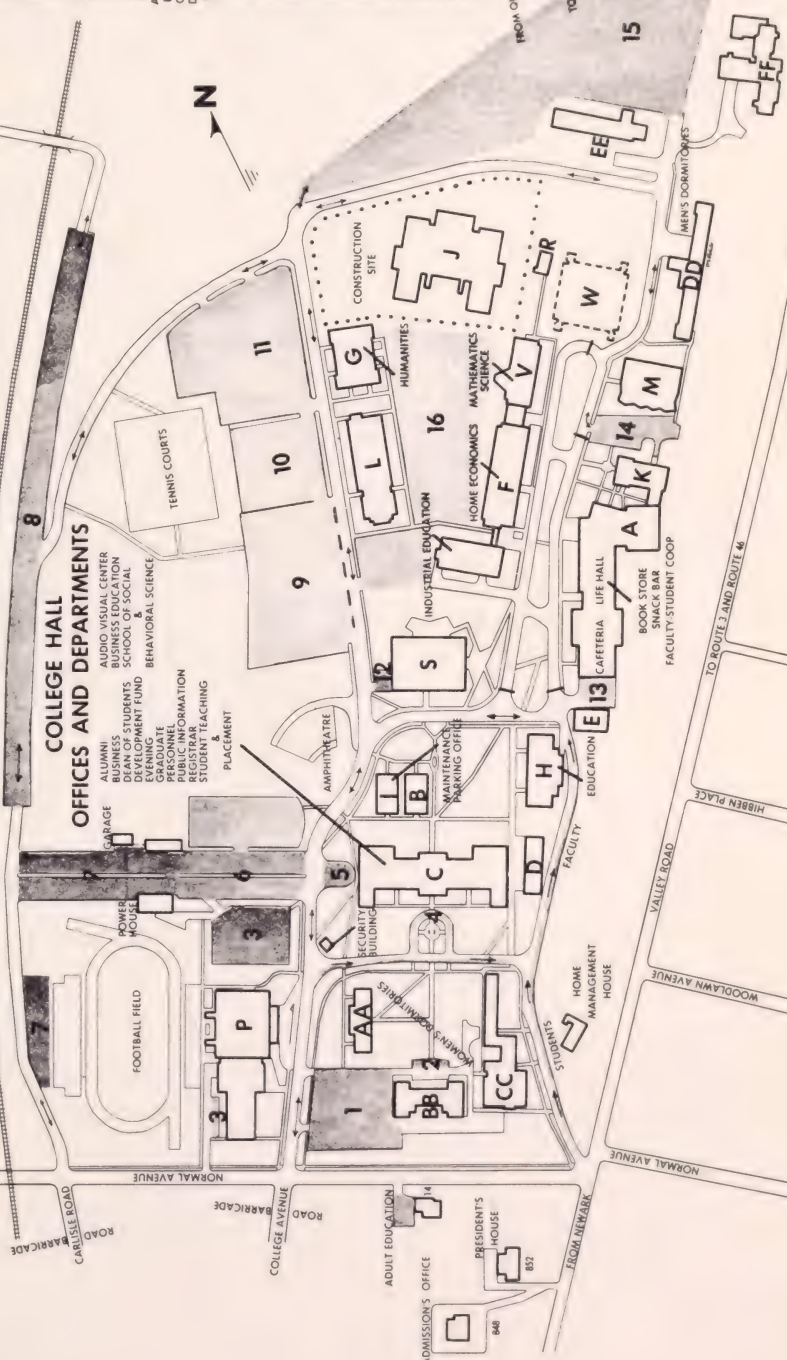
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Home economics .....	44	Urban studies .....	60
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# BUILDING CODE

- A MEMORIAL AUDITORIUM
- B ANNEX 2
- C COLLEGE HALL
- D UNIVERSITY UNION BUILDING
- E ANNEX
- F FINLEY HALL
- G PARTIDGE HALL
- H COLLEGE HIGH SCHOOL
- I STUDENT UNION BUILDING
- J SPEECH BUILDING
- K CALCIA FINE ARTS BUILDING
- L PARKER GYMNASIUM BUILDING
- M FACULTY OFFICE BUILDING
- N SPRAGUE LIBRARY
- O MALLORY HALL
- P UNIVERSITY UNION BUILDING
- AA CHAPIN HALL
- BB RUSS HALL
- CC FREEMAN HALL
- DD MEN'S DORMITORIES
- EE WEBSTER HALL
- FF BOHN HALL

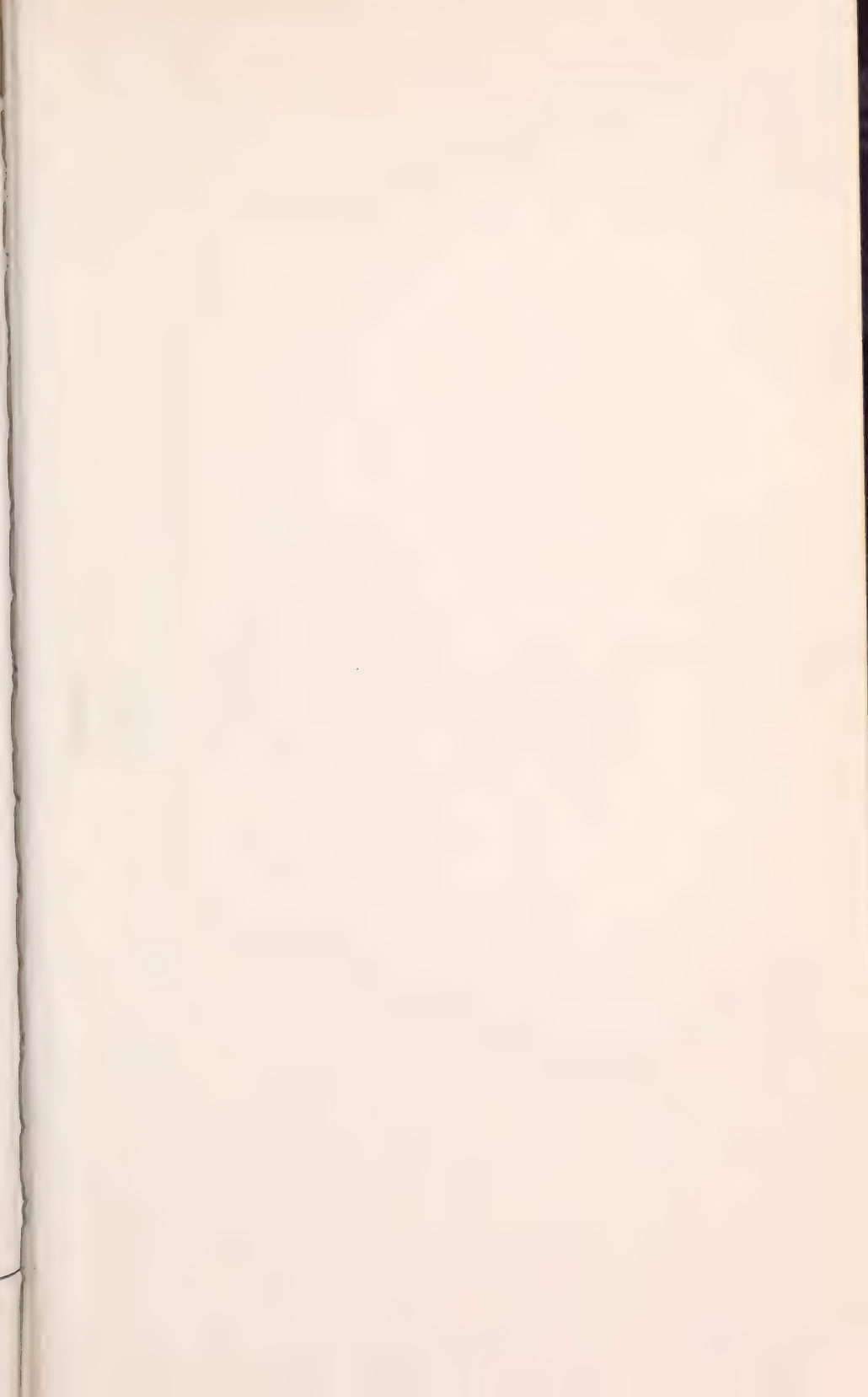
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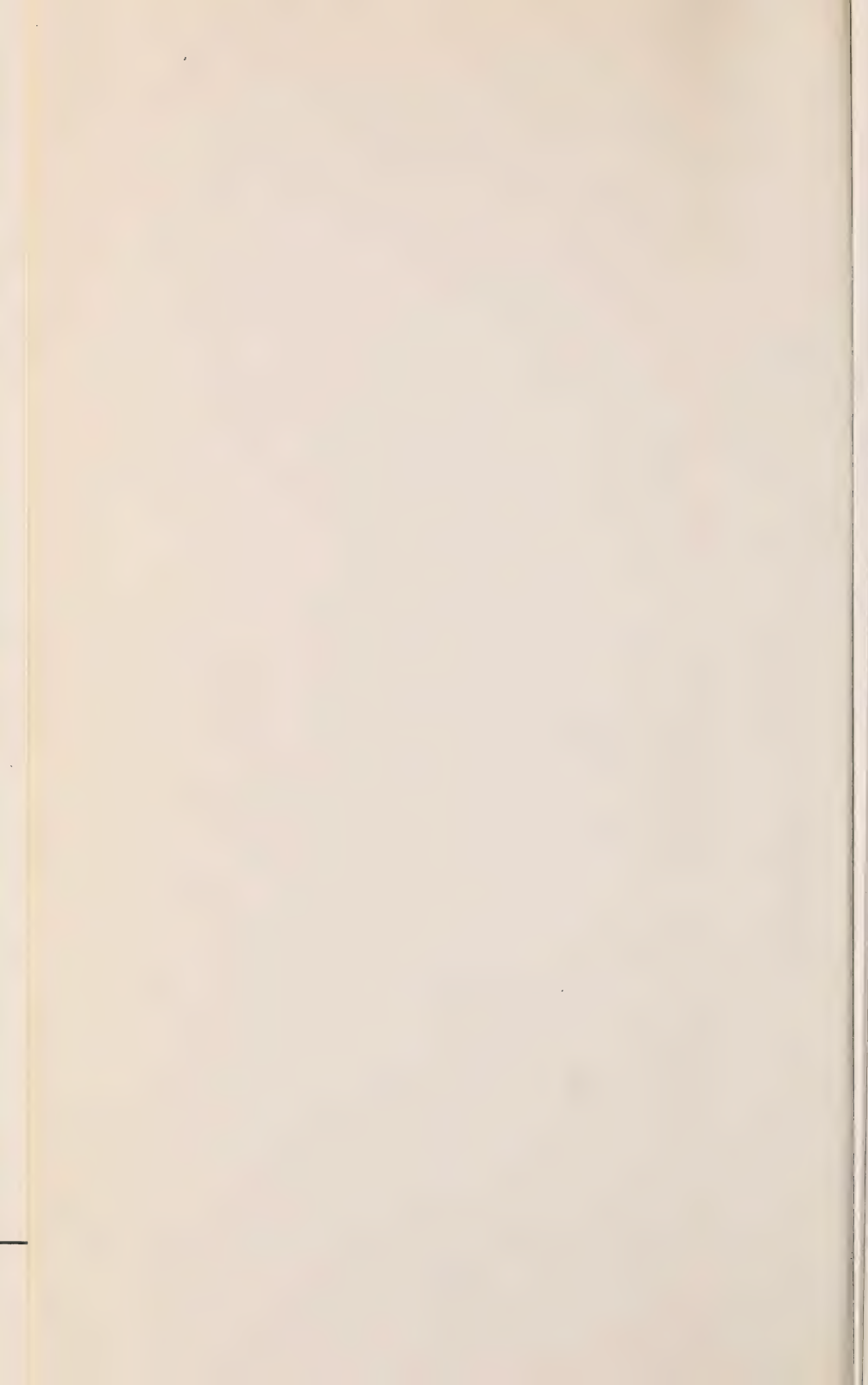
- 1 STUDENT & FACULTY
- 2 DIRECTORS & INFRAMARY STAFF
- 3 FACULTY
- 4 VISITORS
- 5 FACULTY & CHAIRMAN
- 6 FACULTY & CHAIRMAN
- 7 STUDENTS
- 8 STUDENTS
- 9 STUDENTS
- 10 FACULTY
- 11 FACULTY
- 12 FACULTY
- 13 STUDENTS & FACULTY
- 14 FACULTY & CHAIRMAN
- 15 STUDENTS
- 16 STUDENTS
- 17 FRESHMEN

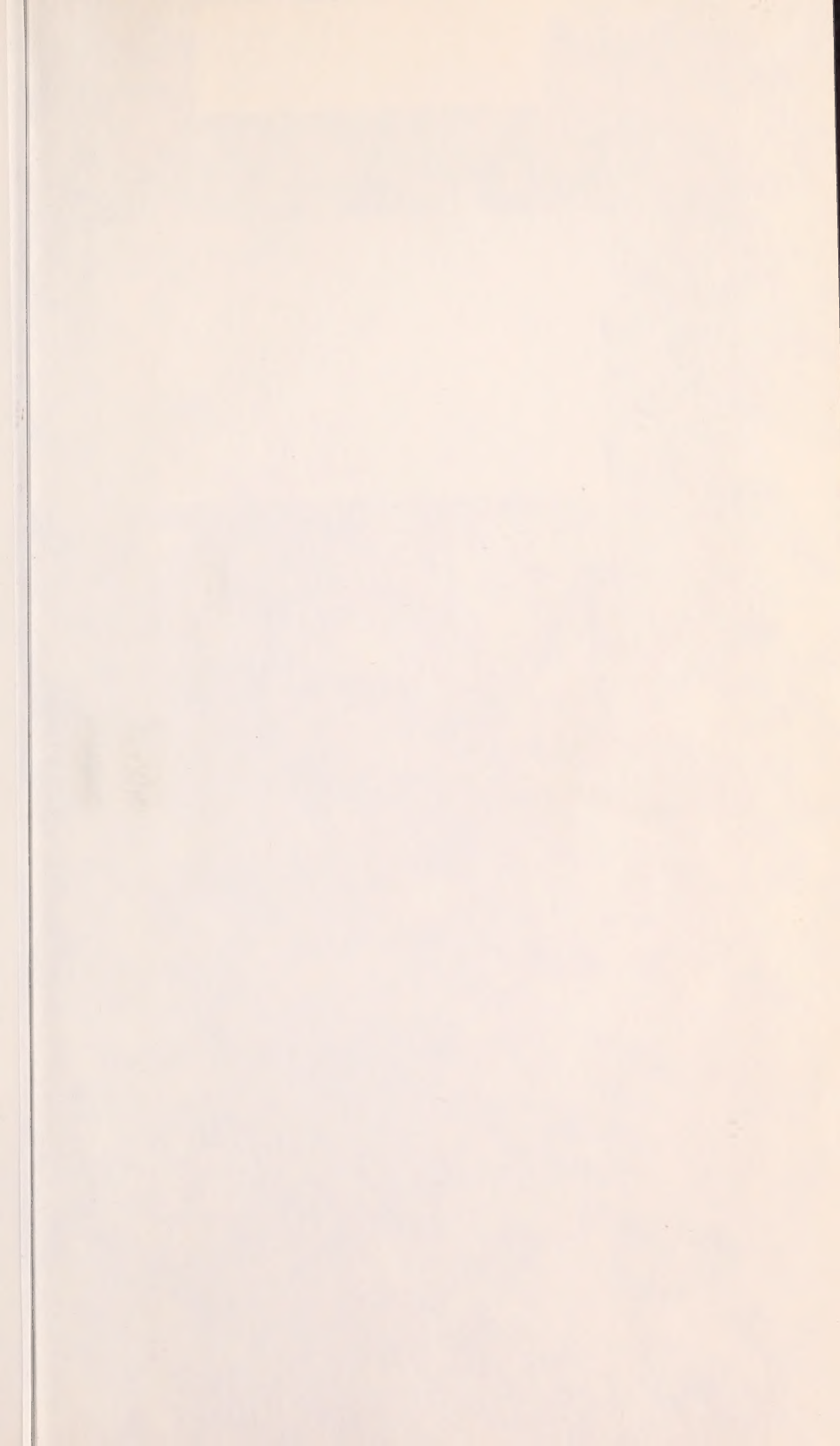




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